audio-technica

Engineered Sound Wireless Systems

IP Control Protocol Specifications

Ver.2.0

Revision history

Version	Date	Description of change
Version 1	Jan, 2023	First version
Version 2	August, 2023	Corrected errors and layout throughout. Added new commands for TX Remote Mute and TX External Mute, implemented since firmware version 001.001.000.

Table of Contents

1 Preface

1.1 Purpose of This Document

This document describes the command specifications to control the Engineered Sound Wireless System (hereinafter referred to as the Device) developed in Audio-Technica.

1.1.1 Definition of Terms and Numeric Representation

Term	Description
Host	A device that issues control commands. It refers to application software or a control device.
Message	A character string transmitted per communication in data format.
Command	A command statement to control a device. It is included in a message.
Parameter	Used in combination with a command. It is a setting value that specifies a command behavior.
RU	ESW-R4180DAN and ESW-R4180LK
RUD	ESW-R4180DAN
RUA	ESW-R4180LK. Compatible with Audio-Technica LINK.
CHG	General term for ESW-CHG4 and ESW-CHG5
TX	Generic term for ESW-T 4101, ESW-T 4102, ESW-T 4106, and ESW-T 4107
BP	Belt pack ESW-T 4101 of TX
HH	Handheld ESW-T 4102 of TX
BD	Boundary type ESW-T 4106
DS	Stand type ESW-T 4107
WLM	Abbreviation for Wireless Manager, a control application of the Device
LINK	DECT communication between TX and RU
Ch	Channel
ATDM	Generic term for Audio-Technica LINK compatible mixers such as ATDM-1012 and ATDM-0604

The numeric representation is defined as follows:

Binary number: A value followed by b Example: 1010 0110b

Hexadecimal number: A value preceded by 0x Example: 0xA6

For the notation of FW versions, leading zeros are omitted in this manual as follows.

Zeros are not omitted in the parameters of the command.

00X.00Y.00Z -> X.Y.Z Example: 001.001.000 -> 1.1.0

Example: 001.001.010 -> 1.1.10

2 Basic Specifications

The IP control function uses TCP or UDP protocol to control the Device.

2.1 Communication Interfaces

2.1.1 RUD/CHG Communication Interface

Table 2-1-1 RUD/CHG Communication Interface

No	Item	Content	Remarks
1.	Communication system	Full duplex	
2.	Transmission speed	10Mbps / 100Mbps	
3.	Port number	TCP (control): 17200	Cannot be changed. (Fixed value)
		UDP (notification): 17000	Can be changed. (17000 at factory shipment)

		UDP (CHG linkage): 17001 UDP (synchronous): 17100	Cannot be changed. (Used for the registration function using the LINK button.) Cannot be changed. (Used for synchronization between RUs.)
4.	Maximum data length	287 bytes (including line feed codes)	32 bytes for Ethernet communication header, 255 bytes for control command
5.	Compatible connector	Device: RJ45 connector (compatible with 10/100 Mbps) Cable: CAT5e or higher	

2.1.2 RUA Communication Interface

RUA is an Audio-Technica LINK device and must be connected to a mixer compatible with Audio-Technica LINK. RUA communication is performed via IP control with a connected Audio-Technica LINK compatible mixer (hereafter called the mixer). Thus, the RUA communication interface indicates the communication interface of the mixer connected. For communication interface, refer to the specifications of the mixer used. For connecting RUA to the mixer, refer to Digital Smart Mixer Application Note.

2.2 Command Formats

Transmitted commands are categorized as follows:

Table 2-2 Command Format

No	Command	Content	Remarks
1.	Set Command	Action command	Change the settings. Use TCP communication.
2.	Get Command	Action command	Obtain the settings and status of the Device. Use TCP communication.
3.	ACK	Acknowledge	Positive responds to a Set Command. Use TCP communication.
4.	NAK	Negative acknowledge	Responds to a Command. Use TCP communication.
5.	Answer	Setting change notification	Responds to a Get Command. Use TCP communication.
6.	Information	Status change notification	Report the settings and status change of the Device. Use UDP communication.
7.	Request Command	Action command	Requests an action to the host. Use TCP communication.

2.2.1 Command Common Rules

It is case sensitive.

Use a single-byte space (␣: 0x20) as a delimiter.

Use a comma (,: 0x2C) as a delimiter in the parameter.

In general, use ASCII codes for commands and UTF-8 for the parameters of specific commands (Example: Naming a device, etc.).

Add CR (0x0d) to the end of each command.

Example:

schname␣S␣0000␣00␣NC␣1,"Ch 001"↲

schname ␣0000␣00␣NC␣ACK␣↲

schname ␣0000␣00␣NC␣NAK␣01↲

MD␣schname ␣0000␣00␣NC␣1,"Ch 001"↲

- ␣: Indicates a space.
- ↲: Indicates CR (0x0d).
- : Indicates a command parameter.

Setup/Get/Action Request Commands

The command format of the Setup, Get, and Action Request commands is shown below. Use TCP communication.

When communicating with RUA, the Device ID or Topology Number of the RUA to be communicated must be correctly specified with Model ID/Device ID.

For more information, refer to Digital Smart Mixer Application Note.

Table 2- 2-1 Common format of commands

No	Item	Content	Size	Remarks
1	Command	Command	Variable length	Varies according to the command.
2	Handshake Select	Sequence execution system	1byte	H: Handshake method (Unused) O: One-Way method S: ACK/NAK method
3	Model ID /Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
4	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
5	Continue Select	Divided message system	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6	Parameter	Command parameter	0 byte or larger; Variable length	Varies according to the command.
7	End Character	Message end character	1byte	CR (0x0D)

2.2.2 Set Command / Get Command / Request Command

The action command format is shown below.

Table 2-2-2 Action Command Format

No	Item	Content	Size	Remarks
1	Command	Command	Variable length	Varies according to the command.
2	Handshake Select	Sequence execution system	1byte	H: Handshake method (Unused) O: One-Way method S: ACK/NAK method
3	Mode ID/ Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
4	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
5	Continue Select	Divided message system	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6	Parameter	Command parameter	0 byte or larger; Variable length	Varies according to the command.
7	End Character	Message end character	1byte	CR (0x0D)

2.2.3 ACK

The ACK command format is shown below. Use TCP communication.

Table 2-2-3 ACK Format

No	Item	Content	Size	Remarks
1	Command	Command	Variable length	Varies according to the command.
2	Model ID /Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
3	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
4	Continue Select	Divided message system	2byte	NC: No divided message (fixed)
5	ACK	ACK	3byte	ACK (fixed)
6	End Character	Message end character	1byte	CR (0x0D)

2.2.4 NAK

The negative acknowledge NAK command format is shown below. Use TCP communication.

Table 2-2-4 NAK Format

No	Item	Content	Size	Remarks
1	Command	Command	Variable length	Varies according to the command.
2	Model ID /Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
3	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
4	Continue Select	Divided message system	2byte	NC: No divided message (fixed)
5	NAK	NAK	3byte	NAK (fixed)
6	Error Code	Error Codes	2byte	
7	End Character	Message end character	1byte	CR (0x0D)

2.2.4.1 Error Codes List

Table 2-2-4-1 Error Codes List

Error Codes	Error description	Remarks
01	Syntax error	• A required element is not found. • The character string of a required element is incorrect. • The character string length for each element is outside the specified range. • The message string length including line feed codes is greater than the upper limit.
02	Invalid command	• The command is not found. (A non-existing command was specified. A command that cannot be used for the device was specified.)
04	Parameter error	• The parameter is outside the specified range. • Changing a parameter that cannot be changed was attempted.

90	Busy	• Unable to process due to a busy state
99	Other errors	• Errors other than the above

2.2.5 Answer

The command format of the setting status response is shown below. Use TCP communication.

Table 2-2-5 Setting Status Return Format

No	Item	Content	Size	Remarks
1	Command	Command	Variable length	Varies according to the command.
2	Model ID/Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
3	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
4	Continue Select	Divided message system	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
5	Parameter	Command parameter	0 byte or larger; Variable length	Varies according to the command.
6	End Character	Message end character	1byte	CR (0x0D)

2.2.6 Information

The command format of the status change notification command is shown below. Use UDP communication.

Table 2- 2-6 Notification command format

No	Item	Content	Size	Remarks
1	Modify	MD	2byte	MD (fixed)
2	Command	Command string	5byte	See 3. Command List.
3	Model ID/Device ID	Model ID/Device ID	4byte	RUD/CHG:0000 RUA:Device ID or Topology Number
4	Unit ID	Unit ID	2byte	RUD/CHG:00 RUA:C0
5	Continue Select	Divided message system	2byte	NC: No divided message CS: Head of divided message CM: Divided message CE: End of divided message
6	Parameter	Command parameter	0 byte or larger; Variable length	Varies according to the command.
7	End Character	Message end character	1byte	CR (0x0D)

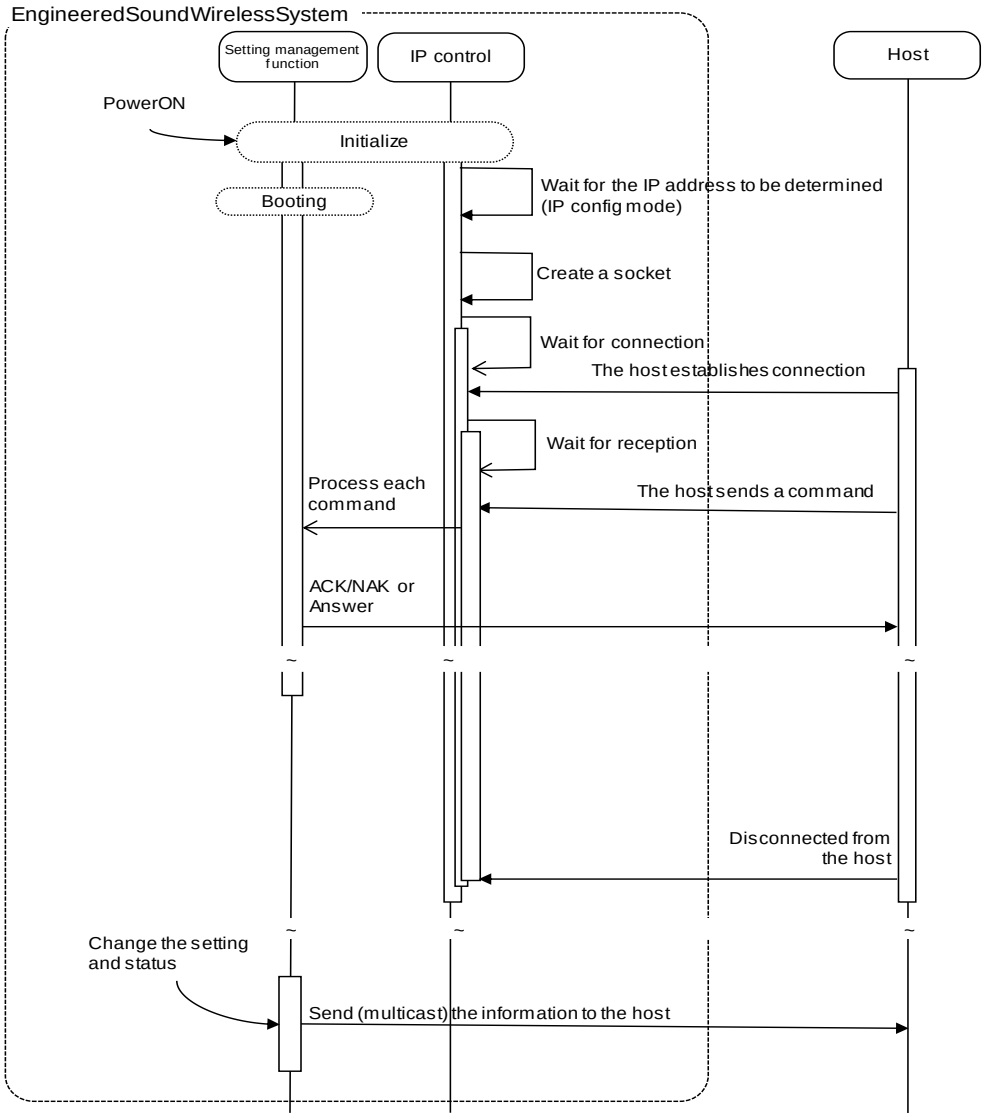
2.3 TCP Communications

To control the Device from the host, TCP protocol is used for communications.

2.3.1 Communication Control

The following figure shows the communication control flow of IP control.

Table 2-3-1 TCP Communication Control Flow



- After the system is booted, the status changes from initializing to connection waiting.
- When the host establishes connection with the system, the status changes from connection waiting to reception waiting.
- Received commands are processed by internal processing tasks, and the results (ACK/NAK) are sent.

Since commands are asynchronously processed, reception is possible even during processing (The next command can be sent without waiting for ACK/NAK and Answer). However, some commands return NAK (90: BUSY).

- When the system is disconnected from the host, the status changes from reception waiting to connection waiting.

2.3.2 Communication Start

The host establishes connections with the Device.

Connection is limited to 1 device. Multiple hosts cannot be connected.

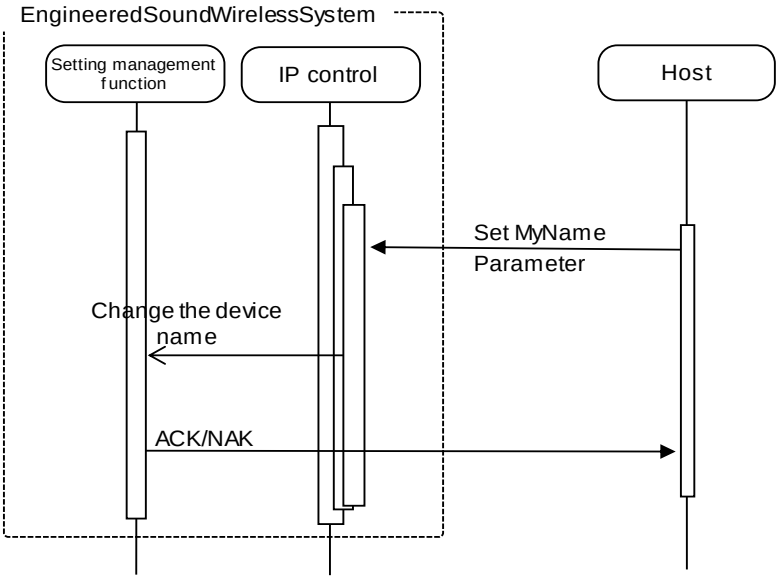
If the number exceeds the upper limit, the extra connection fails.

2.3.3 Control Sequence

2.3.3.1 Set Command

Responding to a Set Command, the Device sends ACK/NAK to the sender.

<Example> The sequence of Device Name Setting of the device is shown below.

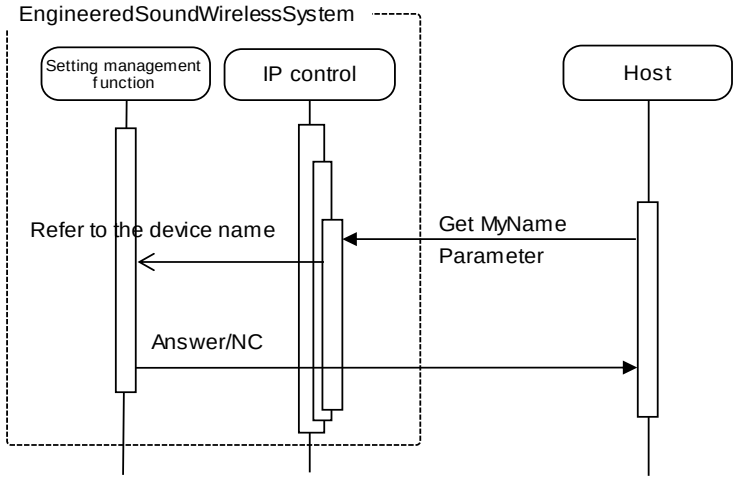


If an error occurs in a Set Command, such as a syntax error or incorrect parameter, an NAK command is sent to the sender.

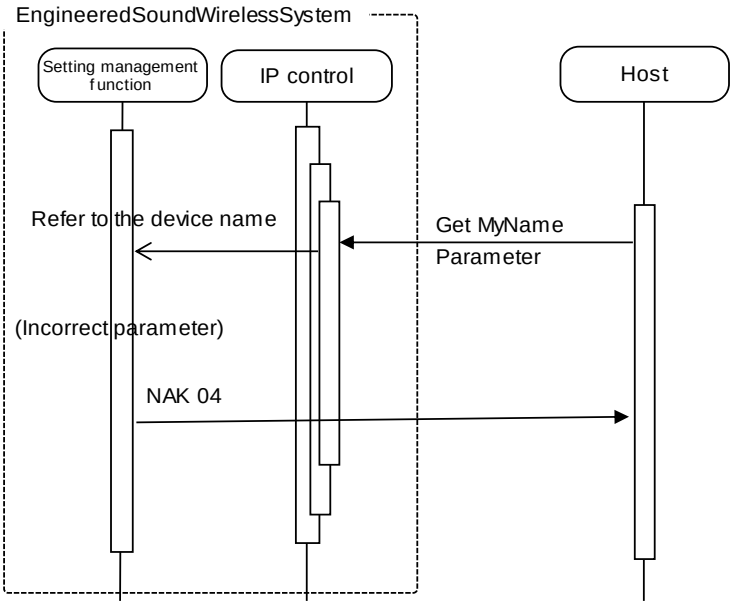
2.3.3.2 Get Command

Responding to a Get Command, the Device sends Answer to the sender.

<Example> The sequence of Device Name Acquisition of the device is shown below.



If an error occurs in a Get Command, such as a syntax error or incorrect parameter, an NAK command is sent to the sender.

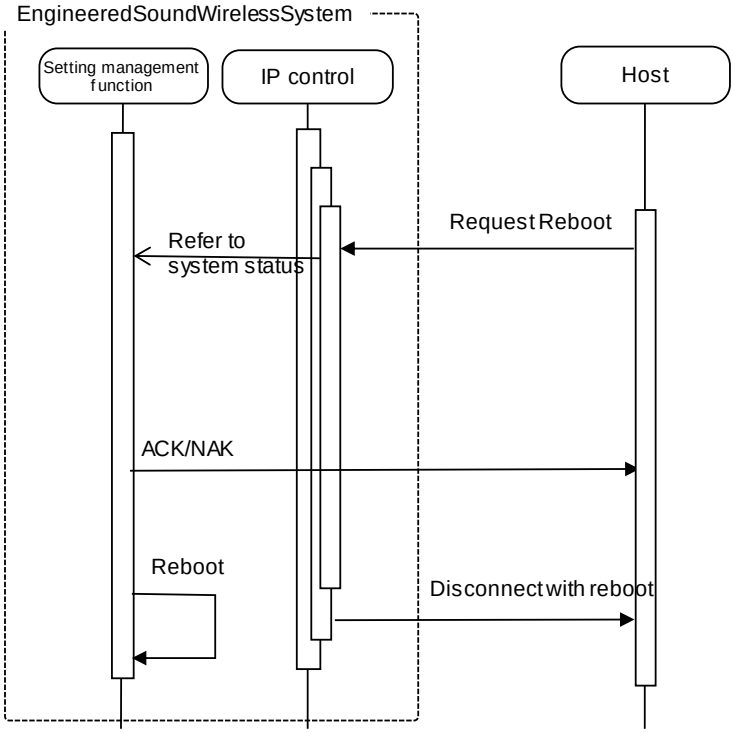

EngineeredSoundWirelessSystem
Setting management function
IP control
Host
Refer to the device name
Get MyName
Parameter
(Incorrect parameter)
NAK 04

2.3.3.3 Request Command

The request command sends whether the command was accepted or not to the sender via ACK/NAK and then performs the requested process if it was accepted (ACK response). There is a subsequent command available to send the measurement result to the sender.

(1) Reboot command

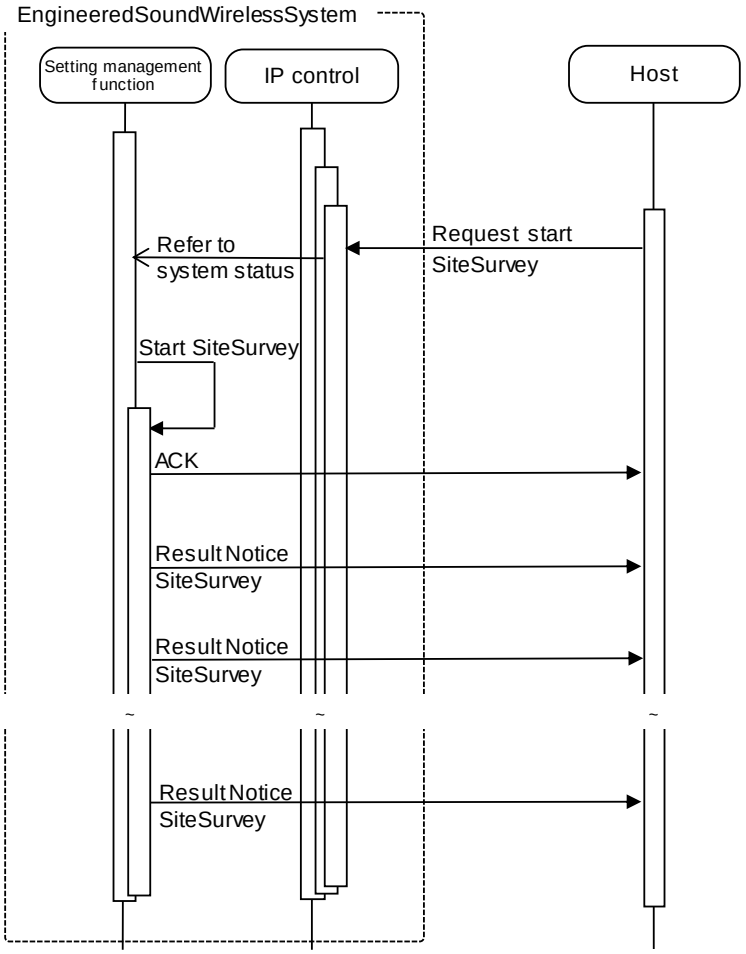
<Example> The sequence of the Reboot request is shown below.



*For NAK responses (telegraphic error, etc.), the system is not reset.

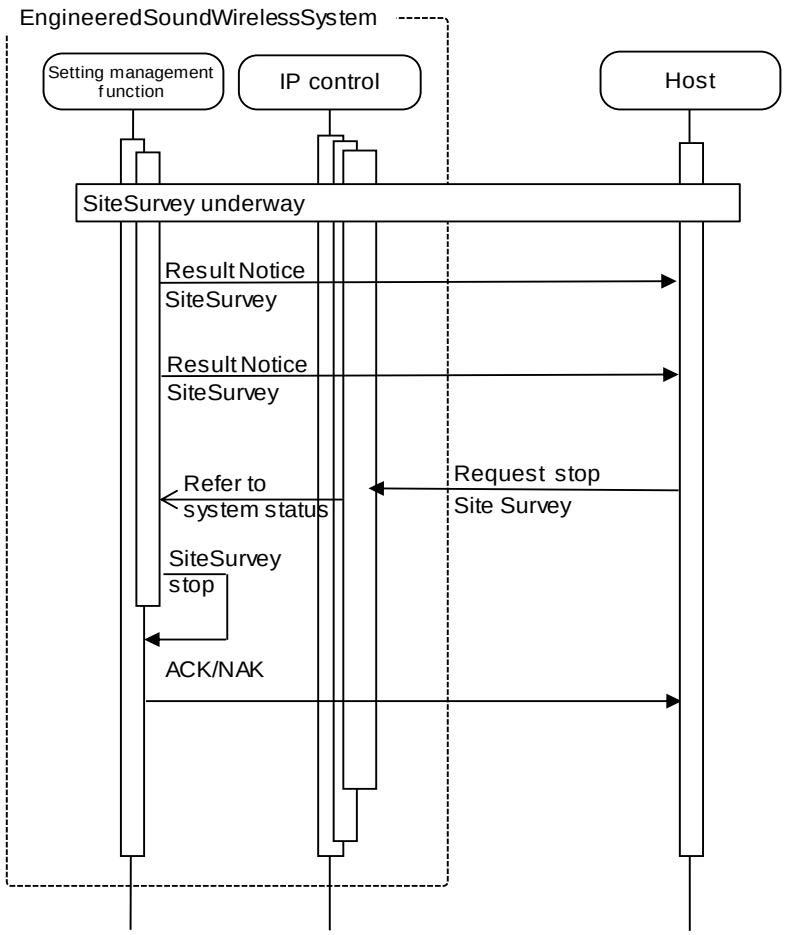
(2) Command sending the measured value at real-time

<Example> The sequence of Site Survey request (start) is shown below.



*For NAK responses (telegraphic error, etc.), no process responding to the request is performed.

<Example> The sequence of Site Survey request (command to send measured values at real-time) is shown below.

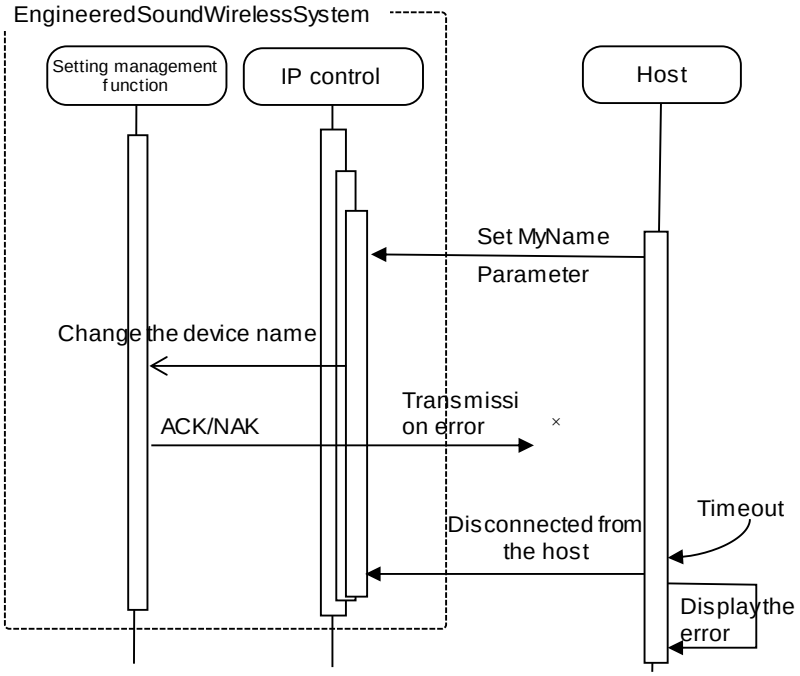


*If Site Survey is stopped, subsequent measured values are not sent.

2.3.4 Communication Errors

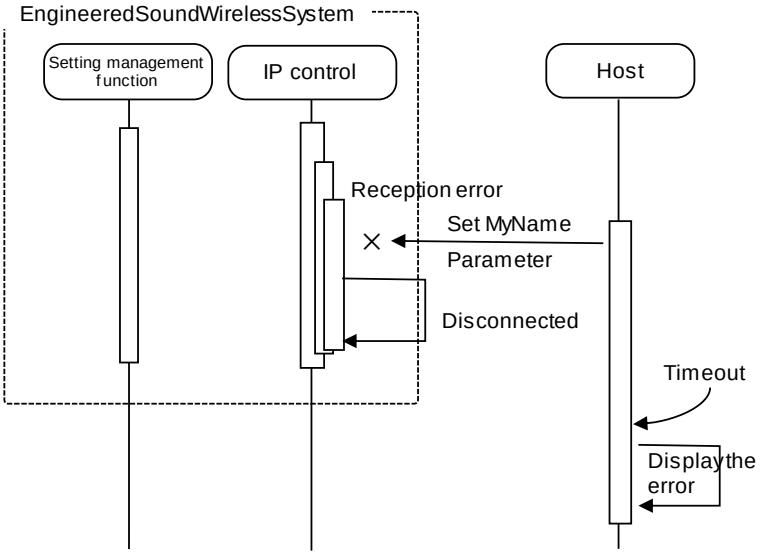
2.3.4.1 Transmission Errors

The following figure shows the sequence when an ACK/NAK transmission error occurs.



2.3.4.2 Reception Errors

The following figure shows the sequence when a command receive error occurs.



2.3.5 End of Communication

The host can be disconnected at any timing when communications end.

When it is disconnected, the Device clears the corresponding connection state (Example: File transferring) and enters the connection wait state again. This occurs even if a cable is disconnected.

To communicate again, the host needs to establish connection.

2.4 UDP Communication

Information (status change notification) from the Device, registration function by CHG button operation, and synchronization between RUs on a same network are sent via UDP protocol.

2.4.1 Communication Control

Refer to Chapter 2.3.1 for the communication control flow.

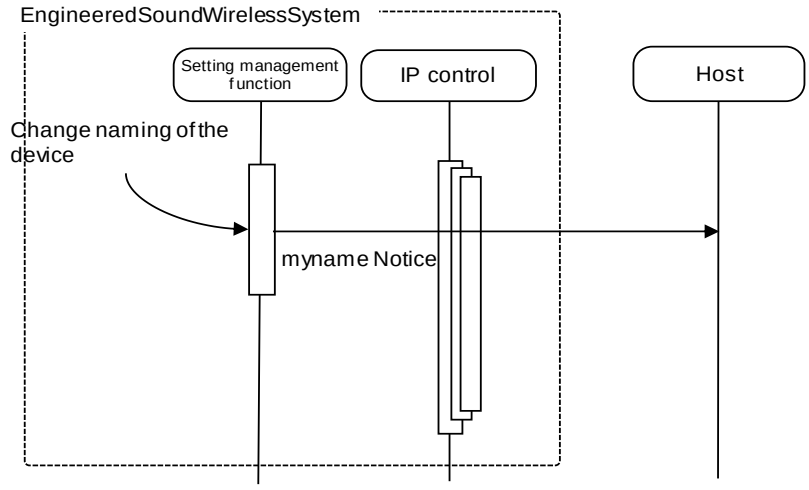
2.4.2 Communication Start

The host registers groups to the multicast address.

2.4.3 Control Sequence

If the Device status changes, a status change notification is sent.

<Example> The sequence of naming change notification is shown below.



2.4.4 Communication Errors

For details on the sequence for transmission errors, see Chapter 2.3.4.

2.4.5 End of Communication

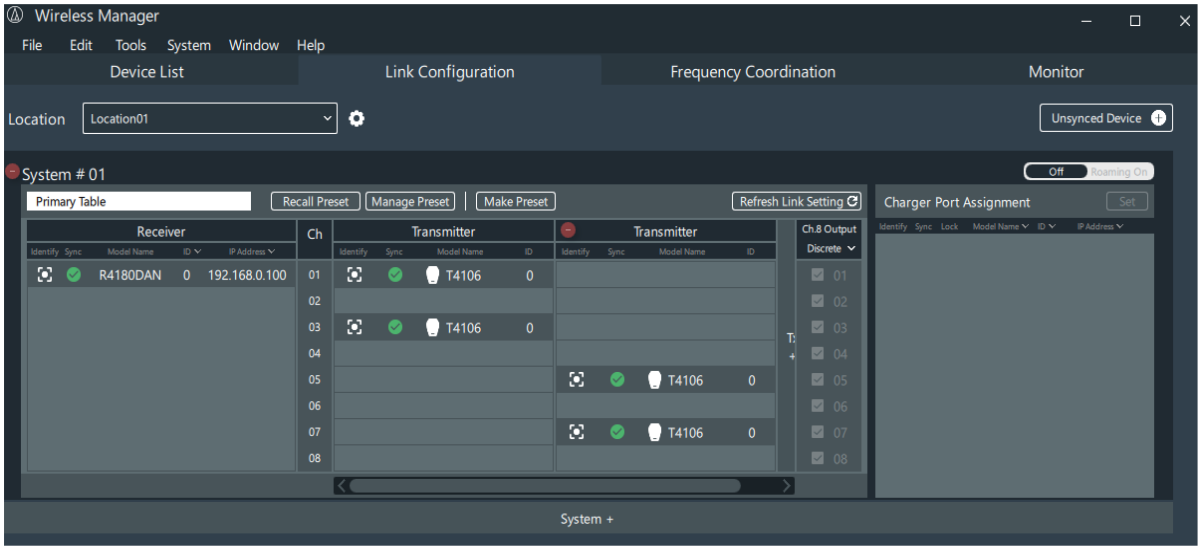
The host can unregister groups at any timing.

3 Command Overview

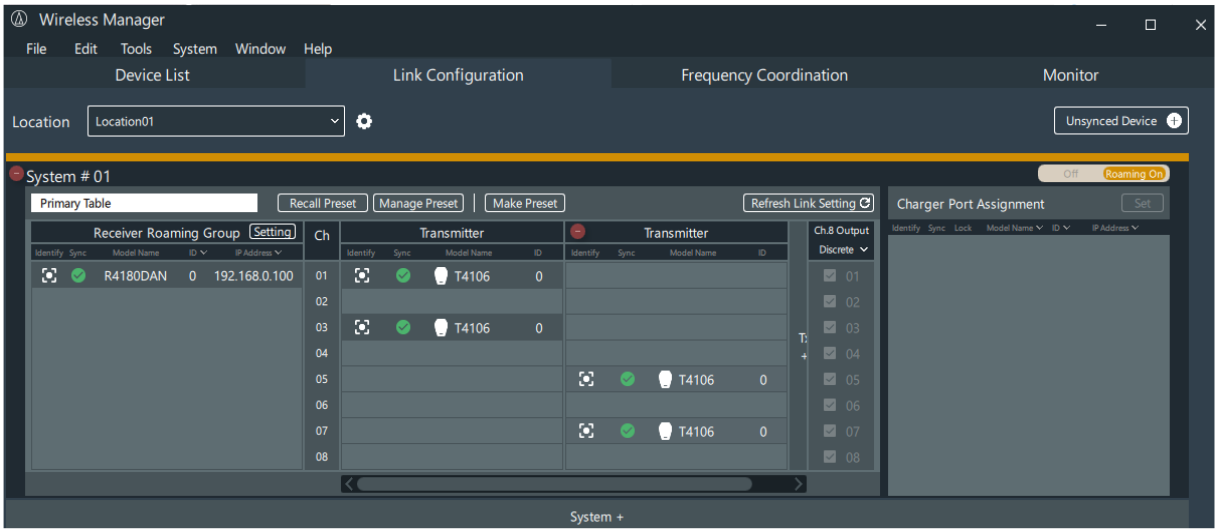
3.1 Definition of command terms

Term	Description
Table	This is collective data of TX registration information, Ch8 output and CH mix assignment setting data possessed by RU. There are two kinds of master tables and eight preset tables for each master table. Users can switch operations by selecting the table to use.
Master Table	There are Normal and Roaming master tables, and only WLM can register RUs and TXs to LINK. In IP control, the Ch8 output setting and CH mix assignment setting can be edited.
Preset Table	There are Preset 1 to 8 (Normal) and Preset 1 to 8 (Roaming), which are tables to register and operate RUs and TXs for LINK from the master tables. Only WLM can register them. In IP control, the Ch8 output setting and CH mix assignment setting for each preset can be edited.
Ch8 Output	Setting whether to use RUD CH8 with Discrete or MIXOUT. Each table has this setting.
Channel Mix Assignment	Setting whether to output the sound of each CH to MIXOUT. Each table has this setting.

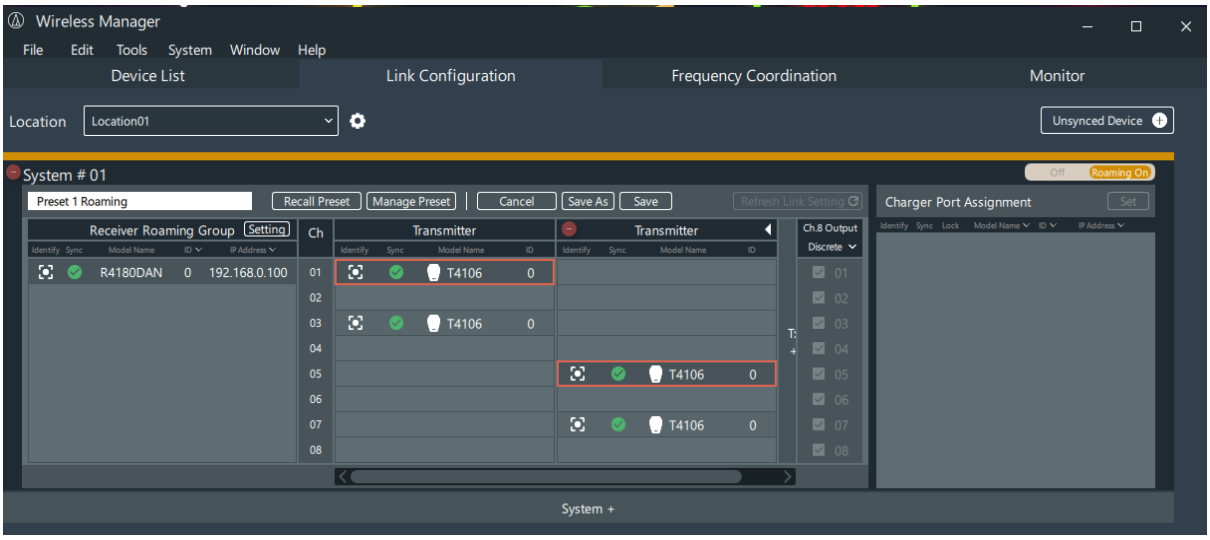
Example 1. Normal master table operation screen in Wireless Manager



Example 2. Roaming master table operation screen in Wireless Manager



Example 3. Preset table (Roaming) edit screen in Wireless Manager



3.2 Command List

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
1	Management	gmymodel	Model Name Acquisition			○			○	○	○
2		gmyversion	Version Information Acquisition			○			○	○	
3		smyname	Device Name Setting		○				○	○	○
4		gmyname	Device Name Acquisition			○			○	○	○
5		nmyname	Device Name Notification					○	○	○	○
6		slocationname	Location Name Setting		○				○	○	○
7		glocationname	Location Name Acquisition			○			○	○	○
8		nlocationname	Location Name Notification					○	○	○	○
9		schname	Channel Name Setting		○				○	○	
10		gchname	Channel Name Acquisition			○			○	○	
11		nchname	Channel Name Notification					○	○	○	
12		smydeviceid	Device ID Setting		○				○	○	○
13		gmydeviceid	Device ID Acquisition			○			○	○	○
14		nmydeviceid	Device ID Notification					○	○	○	○
15	Communication	shdmode	RF Mode Setting		○				○	○	
16		ghdmode	RF Mode Acquisition			○			○	○	
17		nhdmode	RF Mode Notification					○	○	○	
18		srfpower	Transmission Output Setting		○				○	○	
19		grfpower	Transmission Output Acquisition			○			○	○	
20		nrfpower	Transmission Output Notification					○	○	○	
21	Audio	schmute	Channel Mute Setting		○				○	○	

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
22		gchmute	Channel Mute Acquisition			○			○	○	
23		nchmute	Channel Mute Notification					○	○	○	
24		schvolume	Channel Volume Setting		○				○	○	
25		gchvolume	Channel Volume Acquisition			○			○	○	
26		nchvolume	Channel Volume Notification					○	○	○	
27		schhpf	Channel High Pass Filter Setting		○				○	○	
28		gchhpf	Channel High Pass Filter Acquisition			○			○	○	
29		nchhpf	Channel High Pass Filter Notification					○	○	○	
30		schafmetersetting	Channel Meter Setting		○				○	○	
31		gchafmetersetting	Channel Meter Acquisition			○			○	○	
32		nchafmetersetting	Ch Meter Setting					○	○	○	
33		smixout	Ch8 Output Setting		○				○		
34		gmixout	Ch8 Output Acquisition			○			○		
35		nmixout	Ch8 Output Notification					○	○		
36		schmixout	Ch Mix Assignment Setting		○				○	○	
37		gchmixout	Channel Mix Assignment Acquisition			○			○	○	
38		nchmixout	Ch Mix Assignment Notification					○	○	○	
39	Roaming	sroamingmode	Roaming Setting		○				○		
40		groamingmode	Roaming Acquisition			○			○		
41		nroamingmode	Roaming Notification					○	○		
42		sroamingthreshold	Roaming Threshold Setting		○				○		
43		groamingthreshold	Get Roaming Threshold			○			○		

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
44		nroamingthreshold	Roaming Threshold Notification					○	○		
45	Master Table (Normal)	smastermixout	Master Table Ch8 Output Setting		○				○		
46		gmastermixout	Master Table Ch8 Output Acquisition			○			○		
47		nmastermixout	Master Table Ch8 Output Notification					○	○		
48		smasterchmixout	Master Table Channel Mix Assignment Setting		○				○	○	
49		gmasterchmixout	Master Table Channel Mix Assignment Acquisition			○			○	○	
50		nmasterchmixout	Master Table Channel Mix Assignment Notification					○	○	○	
51	Preset (Normal)	spresetname	Preset Name Setting		○				○	○	
52		gpresetname	Preset Name Acquisition			○			○	○	
53		npresetname	Preset Name Notification					○	○	○	
54		spresetmixout	Preset Ch8 Output Setting		○				○		
55		gpresetmixout	Preset Ch8 Output Acquisition			○			○		
56		npresetmixout	Preset Ch8 Output Notification					○	○		
57		spresetchmixout	Preset Channel Mix Assignment Setting		○				○	○	
58		gpresetchmixout	Preset Channel Mix Assignment Acquisition			○			○	○	
59		npresetchmixout	Preset Channel Mix Assignment Notification					○	○	○	
60		spresetrecalllink	Preset Recall Link Setting		○					○	
61		gpresetrecalllink	Preset Recall Link Acquisition			○				○	
62		npresetrecalllink	Preset Recall Link Notification					○		○	
63	Master Table (Roaming)	srmgmastermixout	Roaming Master Table Ch8 Output Setting		○				○		

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
64		grmgmastermixout	Roaming Master Table Ch8 Output Acquisition			○			○		
65		nrmgmastermixout	Roaming Master Table Ch8 Output Notification					○	○		
66		srmgmasterchmixout	Roaming Mater Table Channel Mix Assignment Setting		○				○		
67		grmgmasterchmixout	Roaming Mater Table Channel Mix Assignment Acquisition			○			○		
68		nrmgmasterchmixout	Roaming Mater Table Channel Mix Assignment Notification					○	○		
69	Preset (Roaming)	srmgpresetname	Roaming Preset Name Setting		○				○		
70		grmgpresetname	Roaming Preset Name Acquisition			○			○		
71		nrmgpresetname	Roaming Preset Name Notification					○	○		
72		srmgpresetmixout	Roaming Preset Ch8 Output Setting		○				○		
73		grmgpresetmixout	Roaming Preset Ch8 Output Acquisition			○			○		
74		nrmgpresetmixout	Roaming Preset Ch8 Output Notification					○	○		
75		srmgpresetchmixout	Roaming Preset Channel Mix Assignment Setting		○				○		
76		grmgpresetchmixout	Roaming Preset Channel Mix Assignment Acquisition			○			○		
77		nrmgpresetchmixout	Roaming Preset Channel Mix Assignment Notification					○	○		
78	Level	glevelrf	RF Level Acquisition			○			○	○	
79		glevelafrx	AF Level Acquisition			○			○	○	
80		glevelbatttx	TX Battery Level Acquisition			○			○	○	
81		nlevelbatttx	TX Battery Level Notification					○	○	○	
82		nlevelall	All Levels Notification					○	○	○	
83		glevelbatt	Battery Level Acquisition			○					○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
84		nlevelbatt	Battery Level Notification					○			○
85	Status	gststx	TX Status Acquisition			○			○	○	
86		nststx	TX Status Notification					○	○	○	
87		gstsmute	Mute Status Acquisition			○			○	○	
88		nstsmute	Mute Status Notification					○	○	○	
89	Operation	rreboot	Reboot Request				○		○	○	○
90		nreboot	Reboot Notification					○	○	○	○
91		rfactoryreset	Factory Reset Request				○		○	○	○
92		nfactoryreset	Factory Reset Notification					○	○	○	○
93		rledflash	LED Lighting Request				○		○	○	○
94		rmastercall	Master Table Call Request				○		○	○	
95		rpresetcall	Preset Call Request				○		○	○	
96		rlastpreset	Last Preset Call Request				○		○	○	
97		nlastpreset	Last Preset Call Notification					○	○	○	
98		rudpecho	UDP Transmission Request				○		○	○	○
99		nudpecho	UDP Transmission Notification					○	○	○	○
100	Network	sipnet	IP Network Information Setting		○				○		○
101		gipnet	IP Network Information Acquisition			○			○		○
102		nipnet	IP Network Information Notification					○	○		○
103		glkmacaddress	ESW-R4180LK MAC Address Acquisition			○				○	
104	Notification	snoticemode	Notification Mode Setting		○				○	○	○
105		gnoticemode	Notification Mode Acquisition			○			○	○	○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
106		nnoticemode	Notification Mode Notification					○	○	○	○
107		snoticelevel	Level Notification Setting		○				○	○	
108		gnoticelevel	Level Notification Acquisition			○			○	○	
109		nnoticelevel	Level Notification					○	○	○	
110		snoticelevelinterval	Level Notification Intervals Setting		○				○	○	
111		gnoticelevelinterval	Level Notification Intervals Acquisition			○			○	○	
112		nnoticelevelinterval	Level Notification Intervals Notification					○	○	○	
113		snoticeaddress	Multicast Address Setting		○				○		○
114		gnoticeaddress	Multicast Address Acquisition			○			○		○
115		nnoticeaddress	Multicast Address Notification					○	○		○
116		snoticeportno	Multicast Port Number Setting		○				○		○
117		gnoticeportno	Multicast Port Number Acquisition			○			○		○
118		nnoticeportno	Multicast Port Number Notification					○	○		○
119	Log	slogmode	System Log Setting		○				○	○	○
120		glogmode	System Log Acquisition			○			○	○	○
121		nlogmode	System Log Notification					○	○	○	○
122		sntpmode	NTP Setting		○				○		○
123		gntpmode	NTP Acquisition			○			○		○
124		nntpmode	NTP Notification					○	○		○
125		sntpserveraddress	NTP Server Address Setting		○				○		○
126		gntpserveraddress	NTP Server Address Acquisition			○			○		○
127		nntpserveraddress	NTP Server Address Notification					○	○		○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
128		sntpserverportno	NTP Server Port Number Setting		○				○		○
129		gntpserverportno	NTP Server Port Number Acquisition			○			○		○
130		nntpserverportno	NTP Server Port Number Notification					○	○		○
131		sntptimezone	NTP Time Zone Setting		○				○		○
132		gntptimezone	NTP Time Zone Acquisition			○			○		○
133		nntptimezone	NTP Time Zone Notification					○	○		○
134		sdstmode	Daylight Saving Time Setting		○				○		○
135		gdstmode	Daylight Saving Time Acquisition			○			○		○
136		ndstmode	Daylight Saving Time Notification					○	○		○
137		sdstdatetime	Start and End Dates of Daylight Saving Time Setting		○				○		○
138		gdstdatetime	Start and End Dates of Daylight Saving Time Acquisition			○			○		○
139		ndstdatetime	Start and End Dates of Daylight Saving Time Notification					○	○		○
140	Dante	gdantenet	Dante IP Setting Acquisition			○			○		
141		gdantedevicename	Dante Device Name Acquisition			○			○		
142		gdantechannellabel	Dante Channel Label Name Acquisition			○			○		
143		gdantemodelname	Dante Information Acquisition			○			○		
144		gdanteversion	Dante FW Version Acquisition			○			○		
145	TX	gtxmodel	TX Model Name Acquisition			○					○
146		gtxversion	TX Version Acquisition			○					○
147		stxname	TX Device Name Setting		○						○
148		gtxname	TX Device Name Acquisition			○			○	○	○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
149		ntxname	Respond TX Device Name					○			○
150		stxlocationname	TX Location Name Setting		○						○
151		gtxlocationname	TX Location Name Acquisition			○			○	○	○
152		ntxlocationname	TX Location Name Notification					○			○
153		stxdeviceid	TX Device ID Setting		○						○
154		gtxdeviceid	TX Device ID Acquisition			○			○	○	○
155		ntxdeviceid	TX Device ID Notification					○			○
156		gtxkind	TX Type Acquisition			○			○	○	○
157		stxmicgain	TX Gain Setting		○				○	○	○
158		gtxmicgain	TX Gain Acquisition			○			○	○	○
159		ntxmicgain	TX Gain Notification					○	○	○	○
160		stxintmicgain	TX Internal Mic Gain Setting		○				○	○	○
161		gtxintmicgain	TX Internal Mic Gain Acquisition			○			○	○	○
162		ntxintmicgain	TX Internal Mic Gain Notification					○	○	○	○
163		stxmicpolar	TX Microphone Directivity Setting		○						○
164		gtxmicpolar	TX Microphone Directivity Acquisition			○			○	○	○
165		ntxmicpolar	TX Microphone Directivity Notification					○			○
166		stxmutedisable	TX Mute Function Setting		○						○
167		gtxmutedisable	TX Mute Function Acquisition			○			○	○	○
168		ntxmutedisable	TX Mute Function Notification					○			○
169		stxmutectrl	TX Mute Control Mode Setting	Compatible with FW ver 1.1.0 or later	○						○
170		gtxmutectrl	TX Mute Control Mode Acquisition	Compatible with FW ver 1.1.0 or later		○			○	○	○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
171		ntxmutectrl	TX Mute Control Mode Notification	Compatible with FW ver 1.1.0 or later				○			○
172		gtxremotemute	TX Remote Mute Acquisition	Compatible with FW ver 1.1.0 or later		○			○	○	
173		ntxremotemute	TX Remote Mute Notification	Compatible with FW ver 1.1.0 or later				○	○	○	
174		stxmutemode	TX Mute Mode Setting		○						○
175		gtxmutemode	TX Mute Mode Acquisition			○			○	○	○
176		ntxmutemode	TX Mute Mode Notification					○			○
177		stxmutedefault	TX Default Mute Setting		○						○
178		gtxmutedefault	TX Default Mute Acquisition			○			○	○	○
179		ntxmutedefault	TX Default Mute Notification					○			○
180		stxmutecolor	TX Mute LED Color Setting		○						○
181		gtxmutecolor	TX Mute LED Color Acquisition			○					○
182		ntxmutecolor	TX Mute LED Color Notification					○			○
183		stxunmutecolor	TX Mute Reset LED Color Setting		○						○
184		gtxunmutecolor	TX Mute Reset LED Color Acquisition			○					○
185		ntxunmutecolor	TX Mute Reset LED Color Notification					○			○
186		stxforcedmute	TX External Mute Setting	Compatible with FW ver 1.1.0 or later	○				○	○	
187		gtxforcedmute	TX External Mute Acquisition	Compatible with FW ver 1.1.0 or later		○			○	○	
188		ntxforcedmute	TX External Mute Notification	Compatible with FW ver 1.1.0 or later				○	○	○	
189		salltxforcedmute	TX External Mute Collective Setting	Compatible with FW ver 1.1.0 or later	○				○	○	

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
190		stxbattalert	TX Battery Level Alert Setting		○						○
191		gtxbattalert	TX Battery Level Alert Acquisition			○					○
192		ntxbattalert	TX Battery Level Alert Notification					○			○
193		rtxledflash	TX LED Lighting Request				○		○	○	○
194		stxforcedmuteled	TX External Mute LED Setting	Compatible with FW ver 1.1.0 or later	○				○	○	
195		gtxforcedmuteled	TX External Mute LED Acquisition	Compatible with FW ver 1.1.0 or later		○			○	○	
196		ntxforcedmuteled	TX External Mute LED Notification	Compatible with FW ver 1.1.0 or later				○	○	○	
197		salltxforcedmuteled	TX External Mute LED Collective Setting	Compatible with FW ver 1.1.0 or later	○				○	○	
198		rtxreboot	TX Reboot Request				○				○
199		rtxfactoryreset	TX Factory Reset Request				○				○
200	CHG	gchgmodelname	CHG Model Name Acquisition			○					○
201		gchgversionarray	CHG FW Version Acquisition			○					○
202		gchgdevicearray	CHG Device Linked Information Acquisition			○					○
203		schgportch	CHG Port Assignment Setting		○						○
204		gchgportch	CHG Port Assignment Acquisition			○					○
205		nchgportch	CHG Port Assignment Notification					○			○
206		schglinkbtnlock	CHG Link Button Lock Setting		○						○
207		gchglinkbtnlock	CHG Link Button Lock Acquisition			○					○
208		nchglinkbtnlock	CHG Link Button Lock Notification					○			○
209	Other	sledoff	LED Setting		○				○	○	○

No	Category	Command	Command Name	Remarks	Type				Target		
					Set	Get	Req	Info	RUD	RUA	CHG
210		gledoff	LED Acquisition			○			○	○	○
211		nledoff	LED Notification					○	○	○	○
212		rwalktest	Walktest Request				○		○	○	
213		nwalktest	Walktest Notification					○	○	○	
214		rsitesurvey	DECT RF Scan Request				○		○	○	
215		nsitesurvey	DECT RF Scan Notification					○	○	○	
216	Application Log	napplog	Application Log Notification					○	○	○	○

4 Command Details

4.1 Management

4.1.1 After receiving the Model Name Acquisition

After receiving the Model Name Acquisition, RU or CHG sends the model name to the host via Answer.

In this command, the DECT mode of RU is obtained in hex.

(1) Get Command

In case of Model Name Acquisition from the host, refer to the command format table below.

gmymodel␣O␣0000␣00␣NC␣↲

Table 4-1 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmymodel		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer(RU)

Refer to the table below for Answer Command format from RU.

gmymodel␣0000␣00␣NC␣"ESW-R4180DAN ",15↲

Table 4-2 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmymodel		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Model Name	Model name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
	DECT Mode	DECT Mode	string	00 to FF	DECT Mode	Hexadecimal number
6	End Character	Message end character	binary	0x0d	CR	

(3) Answer(CHG)

Refer to the table below for Answer Command format from CHG.

gmymodel␣0000␣00␣NC␣"ESW-CHG5 ",4↲

Table 4-3 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmymodel		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Model Name	Model name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
	Number of Charging Ports	Number of charging ports	string	2 to 8	Number of ports	
6	End Character	Message end character	binary	0x0d	CR	

4.1.2 Version Information Acquisition

After receiving the Version Information Acquisition, RU sends the version information to the host via Answer.

(1) Get Command

In case of Version Information Acquisition from the host, refer to the command format table below.

gmyversion␣O␣0000␣00␣NC␣↲

Table 4-4 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmyversion		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gmyversion␣0000␣00␣NC␣"001.000.000 ","001.000.000 ","000.001.007 ", "000.000.058 ","000.000.058 ","000.000.058 "↲

Table 4-5 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmyversion		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	File Version	Integrated file version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
	MCU Version	MCU F/W version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
	FPGA Version	FPGA version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
	DECT Version	DECT Version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
	DECT DSP1 Version	DECT DSP1 Version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
	DECT DSP2 Version	DECT DSP2 Version	char	"	Beginning of character string	

No	item	Description	type	value	value description	remarks
			string	ASCII code	Version	12 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.1.3 Device Name Setting

After receiving the Device Name Setting, the RU or CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Device Name Setting from the host, refer to the command format table below.

The usable ASCII characters for the setting are those up to 0x20 to 0x7e excluding 0x22 (”).

smyname␣S␣0000␣00␣NC␣"MyName"↲

Table 4-6 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smyname		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	My Name	Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

smyname␣0000␣00␣NC␣ACK↲

Table 4-7 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smyname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	ACK	ACK	string	ACK		
6	End Character	Message end character	binary	0x0d	CR	

smyname␣0000␣00␣NC␣NAK␣02↲

Table 4-8 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smyname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	NAK	NAK	string	NAK		
6	Error Code	Error Codes	string	00 to 99	See 2.2.4.1.	
7	End Character	Message end character	binary	0x0d	CR	

4.1.4 Device Name Acquisition

After receiving Device Name Acquisition, RU or CHG sends the device name to the host via Answer.

(1) Get Command

In case of Device Name Acquisition from the host, refer to the command format table below.

gmyname␣O␣0000␣00␣NC␣↲

Table 4-9 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmyname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gmyname␣0000␣00␣NC␣"MyName "↲

Table 4-10 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmyname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	My Name	Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.1.5 Device Name Notification

Device Name Notification is sent when the Device Name is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nmyname␣0000␣00␣NC␣"MyName "↲

Table 4-11 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nmyname		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	My Name	Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.1.6 Location Name Setting

After receiving Location Name Setting, RU or CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Location Name Setting from the host, refer to the command format table below.

The usable ASCII characters for the setting are those up to 0x20 to 0x7e excluding 0x22 (").

slocationname␣S␣0000␣00␣NC␣"LocationName"↲

Table 4-12 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	slocationname		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Location Name	Location Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.1.7 Location Name Acquisition

After receiving Location Name Acquisition, RU or CHG sends the location name to the host via Answer.

(1) Get Command

In case of executing the command from the host, refer to the command format table below.

glocationname␣O␣0000␣00␣NC␣↲

Table 4-13 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glocationname		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

glocationname␣0000␣00␣NC␣"LocationName "↲

Table 4-14 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glocationname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Location Name	Location Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.1.8 Location Name Notification

Location Name Notification is sent when the location name is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlocationname␣0000␣00␣NC␣”LocationName　”↲

Table 4-15 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlocationname		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Location Name	Location Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.1.9 Channel Name Setting

After receiving the Channel Name Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Name Setting from the host, refer to the command format table below.

The usable ASCII characters for the setting are those up to 0x20 to 0x7e excluding 0x22 (”).

schname␣S␣0000␣00␣NC␣1,"Ch 001"↲

Table 4-16 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schname		
2	Handshake Select	Sequence execution system	string	S		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Name	Channel name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.1.10 Channel Name Acquisition

After receiving the Channel Name Acquisition, RU sends the Ch name to the host via Answer.

(1) Get Command

In case of Channel Name Acquisition from the host, refer to the command format table below.

gchname␣O␣0000␣00␣NC␣1↲

Table 4-17 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchname␣0000␣00␣NC␣1,"Ch 001 "↲

Table 4-18 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Name	Channel name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.1.11 Channel Name Notification

Channel Name Notification is sent when the Ch name is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchname␣0000␣00␣NC␣1,"Ch 001 "↲

Table 4-19 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchname		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Name	Channel name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.1.12 Device ID Setting

After receiving Device ID Setting, RU or CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Device ID Setting from the host, refer to the command format table below.

smydeviceid␣S␣0000␣00␣NC␣1↲

Table 4-20 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smydeviceid		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				

No	item	Description	type	value	value description	remarks
	Device ID	Device ID	string	0 to 999		Setting range of RUD and CHG is 0 to 255. Setting range of RUA is 0 to 999.
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.1.13 Device ID Acquisition

After receiving the Device ID Acquisition, the RU or CHG sends the device ID to the host via Answer.

(1) Get Command

In case of Device ID Acquisition from the host, refer to the command format table below.

gmydeviceid␣O␣0000␣00␣NC␣↲

Table 4-21 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmydeviceid		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gmydeviceid␣0000␣00␣NC␣1↲

Table 4-22 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmydeviceid		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Device ID	Device ID	string	0 to 999		Setting range of RUD and CHG is 0 to 255. Setting range of RUA is 0 to 999.
6	End Character	Message end character	binary	0x0d	CR	

4.1.14 Device ID Notification

Device ID Notification is sent when the device ID is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nmydeviceid␣0000␣00␣NC␣1↲

Table 4-23 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nmydeviceid		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Device ID	Device ID	string	0~999		Setting range of RUD and CHG is 0 to 255.

No	item	Description	type	value	value description	remarks
						Setting range of RUA is 0 to 999.
7	End Character	Message end character	binary	0x0d	CR	

4.2 Communication

4.2.1 RF Mode Setting

After receiving the RF Mode Setting, the RU sends the processing results to the host via ACK or NAK.

After receiving this command, it takes about 10 seconds to send an ACK response.

(1) Set Command

In case of RF Mode Setting from the host, refer to the command format table below.

shdmode␣S␣0000␣00␣NC␣1↲

Table 4-24 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	shdmode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RF Mode	RF mode	string	1	Standard	
				2	HD mode	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.2.2 RF Mode Acquisition

After receiving the RF Mode Acquisition, RU sends the RF mode to the host via Answer.

(1) Get Command

In case of RF Mode Acquisition from the host, refer to the command format table below.

ghdmode␣O␣0000␣00␣NC␣↲

Table 4-25 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	ghdmode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

ghdmode␣0000␣00␣NC␣1↲

Table 4-26 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	ghdmode		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RF Mode	RF mode	string	1	Standard	
				2	HD mode	
6	End Character	Message end character	binary	0x0d	CR	

4.2.3 RF Mode Notification

RF Mode Notification is sent when the RF mode is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nhdmode␣0000␣00␣NC␣1↲

Table 4-27 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nhdmode		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RF Mode	RF mode	string	1	Standard	
				2	HD mode	
7	End Character	Message end character	binary	0x0d	CR	

4.2.4 Transmission Output Setting

After receiving the Transmission Output Setting, the RU sends the processing results to the host via ACK or NAK.

Settable parameters for transmission output are based on the DECT Mode. See the table below.

DECT Mode (decimal number)	RF Power
02, 03, 04, 05, 21, 23, 25, 30	0: Max, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
01, 24, 27, 28, 29	0: Unavailable, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
00	0: Unavailable, 1: Max, 2: High, 3: Mid:, 4: Low, 5: Min

(1) Set Command

In case of Transmission Output Setting from the host, refer to the command format table below.

srfpower␣S␣0000␣00␣NC␣3↲

Table 4-28 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srfpower		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RF Power	Transmission output	string	0	MAX	
				1	HIGH or Max	
				2	HIGH or unavailable (NAK)	
				3	MID	
				4	LOW	
				5	MIN	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.2.5 Transmission Output Acquisition

After receiving the Transmission Output Acquisition, RU sends the transmission output to the host via Answer.

Settable parameters for transmission output are based on the DECT Mode. See the table below.

DECT Mode (decimal number)	RF Power
02, 03, 04, 05, 21, 23, 25, 30	0: Max, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
01, 24, 27, 28, 29	0: Unavailable, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
00	0: Unavailable, 1: Max, 2: High, 3: Mid:, 4: Low, 5: Min

(1) Get Command

In case of Transmission Output Acquisition from the host, refer to the command format table below.

grfpower␣O␣0000␣00␣NC␣↲

Table 4-29 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grfpower		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

grfpower␣0000␣00␣NC␣3↲

Table 4-30 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grfpower		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RF Power	Transmission output	string	0	MAX	
				1	HIGH or Max	
				2	HIGH or unavailable (NAK)	
				3	MID	
				4	LOW	
				5	MIN	
6	End Character	Message end character	binary	0x0d	CR	

4.2.6 Transmission Output Notification

Transmission Output Notification is sent when the transmission output is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

Settable parameters for transmission output are based on the DECT Mode. See the table below.

DECT Mode (decimal number)	RF Power
02, 03, 04, 05, 21, 23, 25, 30	0: Max, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
01, 24, 27, 28, 29	0: Unavailable, 1: High, 2: Unavailable, 3: Mid:, 4: Low, 5: Min
00	0: Unavailable, 1: Max, 2: High, 3: Mid:, 4: Low, 5: Min

(1) Information

MD␣nrfpower␣0000␣00␣NC␣3↲

Table 4-31 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrfpower		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RF Power	Transmission output	string	0	MAX	
				1	HIGH or Max	
				2	HIGH or unavailable (NAK)	
				3	MID	
				4	LOW	
				5	MIN	
7	End Character	Message end character	binary	0x0d	CR	

4.3 Audio

4.3.1 Channel Mute Setting

After receiving the Channel Mute Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Mute Setting from the host, refer to the command format table below.

schmute␣S␣0000␣00␣NC␣1,1↲

Table 4-32 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schmute		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mute	Channel mute	string	0	MUTE OFF	
				1	MUTE ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.2 Channel Mute Acquisition

After receiving the Channel Mute Acquisition, RU sends the Ch Mute to the host via Answer.

(1) Get Command

In case of Channel Mute Acquisition from the host, refer to the command format table below.

gchmute␣O␣0000␣00␣NC␣1↲

Table 4-33 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchmute		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchmute␣0000␣00␣NC␣1,1↲

Table 4-34 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchmute		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mute	Channel mute	string	0	MUTE OFF	
				1	MUTE ON	
6	End Character	Message end character	binary	0x0d	CR	

4.3.3 Channel Mute Notification

Channel Mute Notification is sent when the Ch Mute is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchmute␣0000␣00␣NC␣1,1↲

Table 4-35 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchmute		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mute	Channel mute	string	0	MUTE OFF	
				1	MUTE ON	
7	End Character	Message end character	binary	0x0d	CR	

4.3.4 Channel Volume Setting

After receiving the Channel Volume Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Volume Setting from the host, refer to the command format table below.

schvolume␣S␣0000␣00␣NC␣1,30↲

Table 4-36 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schvolume		
2	Handshake Select	Sequence execution system	string	S		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Volume	Channel Volume	string	0 to 40	0: -30 dB to 30: 0 dB Up to 40: +10 dB (in increments of 1 db)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.5 Channel Volume Acquisition

After receiving the Channel Volume Acquisition, RU sends the Ch volume to the host via Answer.

(1) Get Command

In case of Channel Volume Acquisition from the host, refer to the command format table below.

gchvolume␣O␣0000␣00␣NC␣1↲

Table 4-37 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchvolume		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchvolume␣0000␣00␣NC␣1,30↲

Table 4-38 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchvolume		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Volume	Channel Volume	string	0 to 40	0: -30 dB to 30: 0 dB Up to 40: +10 dB (in increments of 1 db)	
6	End Character	Message end character	binary	0x0d	CR	

4.3.6 Channel Volume Notification

Channel Volume Notification is sent when the Ch volume is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchvolume␣0000␣00␣NC␣1,30↲

Table 4-39 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchvolume		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Volume	Channel Volume	string	0 to 40	0: -30 dB to 30: 0 dB Up to 40: +10 dB (in increments of 1 db)	
7	End Character	Message end character	binary	0x0d	CR	

4.3.7 Channel High Pass Filter Setting

After receiving the Channel High Pass Filter Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel High Pass Filter Setting from the host, refer to the command format table below.

schhpf␣S␣0000␣00␣NC␣1,2↲

Table 4-40 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schhpf		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch High-pass filter	Ch High Pass Filter	string	0	OFF	
				1	80Hz	

No	item	Description	type	value	value description	remarks
				2	120Hz	
				3	160Hz	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.8 Channel High Pass Filter Acquisition

After receiving Channel High Pass Filter Acquisition, RU sends the Ch high pass filter to the host via Answer.

(1) Get Command

In case of Channel High Pass Filter Acquisition from the host, refer to the command format table below.

gchhpf␣O␣0000␣00␣NC␣1↲

Table 4-41 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchhpf		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchhpf␣0000␣00␣NC␣1,2↲

Table 4-42 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchhpf		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch High-pass filter	Ch High Pass Filter	string	0	OFF	
				1	80Hz	
				2	120Hz	
				3	160Hz	
6	End Character	Message end character	binary	0x0d	CR	

4.3.9 Channel High Pass Filter Notification

Channel High Pass Filter Notification is sent when the Ch high pass filter is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchhpf␣0000␣00␣NC␣1,2↲

Table 4-43 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchhpf		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch High-pass filter	Ch High Pass Filter	string	0	OFF	
				1	80Hz	
				2	120Hz	
				3	160Hz	
7	End Character	Message end character	binary	0x0d	CR	

4.3.10 Channel Meter Setting

After receiving the Channel Meter Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Meter Setting from the host, refer to the command format table below.

schafmetersetting␣S␣0000␣00␣NC␣1,1↲

Table 4-44 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schafmetersetting		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Meter Setting	Channel Meter Setting	string	0	PRE	

No	item	Description	type	value	value description	remarks
				1	POST	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.11 Channel Meter Acquisition

After receiving the Channel Meter Acquisition, RU sends the Ch meter to the host via Answer.

(1) Get Command

In case of Channel Meter Acquisition from the host, refer to the command format table below.

gchafmetersetting␣O␣0000␣00␣NC␣1↲

Table 4-45 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchafmetersetting		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchafmetersetting␣0000␣00␣NC␣1,1↲

Table 4-46 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchafmetersetting		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Meter Setting	Channel Meter Setting	string	0	PRE	
				1	POST	
6	End Character	Message end character	binary	0x0d	CR	

4.3.12 Ch Meter Setting

Ch Meter Setting is sent when the Ch meter is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchafmetersetting␣0000␣00␣NC␣1,1↲

Table 4-47 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchafmetersetting		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Meter Setting	Channel Meter Setting	string	0	PRE	
				1	POST	
7	End Character	Message end character	binary	0x0d	CR	

4.3.13 Ch8 Output Setting

After receiving the Ch8 Output Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Ch8 Output Setting from the host, refer to the command format table below.

smixout␣S␣0000␣00␣NC␣1↲

Table 4-48 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch8 Output Setting	Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.14 Ch8 Output Acquisition

After receiving the Ch8 Output Acquisition, RUD sends the Ch 8 output to the host via Answer.

(1) Get Command

In case of Ch8 Output Acquisition from the host, refer to the command format table below.

gmixout␣O␣0000␣00␣NC␣↲

Table 4-49 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gmixout␣0000␣00␣NC␣1↲

Table 4-50 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
5	Parameter	Parameter				
	Ch8 Output Setting	Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
6	End Character	Message end character	binary	0x0d	CR	

4.3.15 Ch8 Output Notification

Ch8 Output Notification is sent when the Ch8 output setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nmixout␣0000␣00␣NC␣1↲

Table 4-51 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch8 Output Setting	Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

4.3.16 Channel Mix Assignment Setting

After receiving the Channel Mix Assignment Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Mix Assignment Setting from the host, refer to the command format table below.

schmixout␣S␣0000␣00␣NC␣1,1↲

Table 4-52 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mixout Setting	Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.3.17 Channel Mix Assignment Acquisition

After receiving the Channel Mix Assignment Acquisition, RU sends the Ch mix assignment to the host via Answer.

(1) Get Command

In case of Channel Mix Assignment Acquisition from the host, refer to the command format table below.

gchmixout␣O␣0000␣00␣NC␣1↲

Table 4-53 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gchmixout␣0000␣00␣NC␣1,1↲

Table 4-54 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mixout Setting	Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.3.18 Channel Mix Assignment Notification

Channel Mix Assignment Notification is sent when the Ch mix assignment is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchmixout␣0000␣00␣NC␣1,1↲

Table 4-55 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mixout Setting	Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.4 Roaming

4.4.1 Roaming Setting

After receiving the Roaming Setting, RUD sends the processing results to the host via ACK or NAK.

After receiving this command, it takes about 15 seconds to send an ACK response.

(1) Set Command

In case of Roaming Setting from the host, refer to the command format table below.

sroamingmode␣S␣0000␣00␣NC␣1↲

Table 4-56 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sroamingmode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Mode	Roaming mode	string	0	Disable	
				1	Enable	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.4.2 Roaming Acquisition

After receiving the Roaming Acquisition, RUD sends the roaming mode to the host via Answer.

(1) Get Command

In case of Roaming Acquisition from the host, refer to the command format table below.

groamingmode␣O␣0000␣00␣NC␣↲

Table 4-57 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	groamingmode		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

groamingmode␣0000␣00␣NC␣1↲

Table 4-58 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	groamingmode		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Mode	Roaming mode	string	0	Disable	
				1	Enable	
6	End Character	Message end character	binary	0x0d	CR	

4.4.3 Roaming Notification

Roaming Notification is sent when the roaming setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nroamingmode␣0000␣00␣NC␣1↲

Table 4-59 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nroamingmode		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Mode	Roaming mode	string	0	Disable	
				1	Enable	
7	End Character	Message end character	binary	0x0d	CR	

4.4.4 Roaming Threshold Setting

After receiving the Roaming Threshold Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Threshold Setting from the host, refer to the command format table below.

sroamingthreshold␣S␣0000␣00␣NC␣1↲

Table 4-60 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sroamingthreshold		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	Roaming Threshold	Roaming Threshold	string	0	OFF	DISCONNECT automatically with no specified RSSI value.
				-85 to -50	-85 dBm to -50 dBm (In increments of 1 dBm)	DISCONNECT when the RSSI remains below the specified RSSI.
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.4.5 Roaming Threshold Acquisition

After receiving the Roaming Threshold Acquisition, RUD sends the roaming threshold to the host via Answer.

(1) Get Command

In case of Roaming Threshold Acquisition from the host, refer to the command format table below.

groamingthreshold␣O␣0000␣00␣NC␣1↲

Table 4-61 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	groamingthreshold		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

groamingthreshold␣0000␣00␣NC␣1,1↲

Table 4-62 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	groamingthreshold		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Threshold	Roaming Threshold	string	0	OFF	DISCONNECT automatically with no specified RSSI value.
				-85 to -50	-85 dBm to -50 dBm (In increments of 1 dBm)	DISCONNECT when the RSSI remains below the specified RSSI.
6	End Character	Message end character	binary	0x0d	CR	

4.4.6 Roaming Threshold Notification

Roaming Threshold Notification is sent when the roaming threshold is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nroamingthreshold␣0000␣00␣NC␣1↲

Table 4-63 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nroamingthreshold		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Threshold	Roaming Threshold	string	0	OFF	DISCONNECT automatically with no specified RSSI value.
				-85 to -50	-85 dBm to -50 dBm (In increments of 1 dBm)	DISCONNECT when the RSSI remains below the specified RSSI.
7	End Character	Message end character	binary	0x0d	CR	

4.5 Master Table (Normal)

4.5.1 Master Table Ch8 Output Setting

After receiving the Master Table Ch8 Output Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Master Table Ch8 Output Setting from the host, refer to the command format table below.

smastermixout␣S␣0000␣00␣NC␣1↲

Table 4-64 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smastermixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Master Table Ch8 Output Setting	Master Table Ch8 Output Setting	string	0	Discrete	

No	item	Description	type	value	value description	remarks
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.5.2 Get Master Table Ch8 Output

After receiving the Get Master Table Ch8 Output, RUD sends the master table Ch 8 output to the host via Answer.

(1) Get Command

In case of Get Master Table Ch8 Output from the host, refer to the command format table below.

gmastermixout␣O␣0000␣00␣NC␣↲

Table 4-65 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmastermixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gmastermixout␣0000␣00␣NC␣1↲

Table 4-66 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmastermixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Master Table Ch8 Output Setting	Master Table Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
6	End Character	Message end character	binary	0x0d	CR	

4.5.3 Master Table Ch8 Output Notification

Master Table Ch8 Output Notification is sent when the master table Ch8 output setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nmastermixout␣0000␣00␣NC␣1↲

Table 4-67 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nmastermixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	

No	item	Description	type	value	value description	remarks
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Master Table Ch8 Output Setting	Master Table Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

4.5.4 Master Table Channel Mix Assignment Setting

After receiving the Master Table Channel Mix Assignment Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Channel Mix Assignment Setting from the host, refer to the command format table below.

smasterchmixout␣S␣0000␣00␣NC␣1,1↲

Table 4-68 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	smasterchmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Master Table Ch Mixout Setting	Master Table Ch Mix Assignment Setting	string	0	OFF	
				1	ON	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.5.5 Get Master Table Channel Mix Assignment

After receiving the Get Master Table Channel Mix Assignment, RU sends the master table Ch mix assignment to the host via Answer.

(1) Get Command

In case of Get Master Table Channel Mix Assignment from the host, refer to the command format table below.

gmasterchmixout␣O␣0000␣00␣NC␣1↲

Table 4-69 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmasterchmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gmasterchmixout␣0000␣00␣NC␣1,1↲

Table 4-70 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gmasterchmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Master Table Ch Mixout Setting	Master Table Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.5.6 Master Table Channel Mix Assignment Notification

Master Table Channel Mix Assignment Notification is sent when the master table Ch mix assignment is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nmasterchmixout␣0000␣00␣NC␣1,1↲

Table 4-71 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nmasterchmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Master Table	Master Table	string	0	OFF	

No	item	Description	type	value	value description	remarks
	Ch Mixout Setting	Ch Mix Assignment Setting				
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.6 Preset (Normal)

4.6.1 Preset Name Setting

After receiving the Preset Name Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Preset Name Setting from the host, refer to the command format table below.

spresetname␣S␣0000␣00␣NC␣1,"Preset 001"↲

Table 4-72 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	spresetname		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Name	Preset name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.6.2 Preset Name Acquisition

After receiving the Preset Name Acquisition, RU sends the preset name to the host via Answer.

(1) Get Command

In case of Preset Name Acquisition from the host, refer to the command format table below.

gpresetname␣O␣0000␣00␣NC␣1↲

Table 4-73 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gpresetname␣0000␣00␣NC␣1,"Preset 001 "↲

Table 4-74 Answer Command Format

No	item	Description	type	value	value description	remarks

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Name	Preset name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.6.3 Preset Name Notification

Preset Name Notification is sent when the preset name is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣npresetname␣0000␣00␣NC␣1,"Preset 001 "↲

Table 4-75 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	npresetname		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Name	Preset name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters

No	item	Description	type	value	value description	remarks
			char	''	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.6.4 Preset Ch8 Output Setting

After receiving the Preset Ch8 Output Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Preset Ch8 Output Setting from the host, refer to the command format table below.

spresetmixout␣S␣0000␣00␣NC␣1,1↲

Table 4-76 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	spresetmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Ch8 Output Setting	Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.6.5 Preset Ch8 Output Acquisition

After receiving the Preset Ch8 Output Acquisition, RUD sends the preset Ch 8 output to the host via Answer.

(1) Get Command

In case of Preset Ch8 Output Acquisition from the host, refer to the command format table below.

gpresetmixout␣O␣0000␣00␣NC␣1↲

Table 4-77 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gpresetmixout␣0000␣00␣NC␣1,1↲

Table 4-78 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	

No	item	Description	type	value	value description	remarks
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Ch8 Output Setting	Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
6	End Character	Message end character	binary	0x0d	CR	

4.6.6 Preset Ch8 Output Notification

Preset Ch8 Output Notification is sent when the preset Ch8 output setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣npresetmixout␣0000␣00␣NC␣1,1↲

Table 4-79 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	npresetmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Preset Ch8 Output Setting	Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

4.6.7 Preset Channel Mix Assignment Setting

After receiving the Preset Channel Mix Assignment Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Preset Channel Mix Assignment Setting from the host, refer to the command format table below.

spresetchmixout␣S␣0000␣00␣NC␣1,1,1↲

Table 4-80 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	spresetchmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
	Preset Ch Mixout Setting	Preset Ch Mix Assignment Setting	string	0	OFF	

No	item	Description	type	value	value description	remarks
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.6.8 Preset Channel Mix Assignment Acquisition

After receiving the Preset Channel Mix Assignment Acquisition, RU sends the preset Ch mix assignment to the host via Answer.

(1) Get Command

In case of Preset Channel Mix Assignment Acquisition from the host, refer to the command format table below.

gpresetchmixout␣O␣0000␣00␣NC␣1,1↲

Table 4-81 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetchmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gpresetchmixout␣0000␣00␣NC␣1,1,1↲

Table 4-82 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetchmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
	Preset Ch Mixout Setting	Preset Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.6.9 Preset Channel Mix Assignment Notification

Preset Channel Mix Assignment Notification is sent when the preset Ch mix assignment is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣npresetchmixout␣0000␣00␣NC␣1,1,1↲

Table 4-83 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	npresetchmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset No.	Preset number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
	Preset Ch Mixout Setting	Preset Ch Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.6.10 Preset Recall Link Setting

After receiving the Preset Recall Link Setting, RUA sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Preset Recall Link Setting from the host, refer to the command format table below.

spresetrecalllink␣S␣0000␣00␣NC␣1↲

Table 4-84 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	spresetrecalllink		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset Recall Link	Preset Recall Link Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.6.11 Preset Recall Link Acquisition

After receiving the Preset Recall Link Acquisition, RUA sends the preset recall link setting to the host via Answer.

(1) Get Command

In case of Preset Recall Link Acquisition from the host, refer to the command format table below.

gpresetrecalllink␣O␣0000␣00␣NC␣↲

Table 4-85 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetrecalllink		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUA.

gpresetrecalllink␣0000␣00␣NC␣1↲

Table 4-86 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gpresetrecalllink		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Preset Recall Link	Preset Recall Link Mode	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.6.12 Preset Recall Link Notification

Preset Recall Link Notification is sent when Preset Recall Link Setting is changed from RUA.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣npresetrecalllink␣0000␣00␣NC␣1↲

Table 4-87 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	npresetrecalllink		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Preset Recall Link	Preset Recall Link Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.7 Master Table (Roaming)

4.7.1 Roaming Master Table Ch8 Output Setting

After receiving the Roaming Master Table Ch8 Output Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Master Table Ch8 Output Setting from the host, refer to the command format table below.

srmgmastermixout␣S␣0000␣00␣NC␣1↲

Table 4-88 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srmgmastermixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Master Table Ch8 Output Setting	Roaming Master Table Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.7.2 Roaming Master Table Ch8 Output Acquisition

After receiving the Roaming Master Table Ch8 Output Acquisition, RUD sends the roaming master table Ch 8 output to the host via Answer.

(1) Get Command

In case of Roaming Master Table Ch8 Output Acquisition from the host, refer to the command format table below.

grmgmastermixout␣O␣0000␣00␣NC␣↲

Table 4-89 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgmastermixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

grmgmastermixout␣0000␣00␣NC␣1↲

Table 4-90 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgmastermixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Master	Roaming Master Table	string	0	Discrete	

No	item	Description	type	value	value description	remarks
	Table Ch8 Output Setting	Ch8 Output Setting				
				1	Mixout	
6	End Character	Message end character	binary	0x0d	CR	

4.7.3 Roaming Master Table Ch8 Output Notification

Roaming Master Table Ch8 Output Notification is sent when the roaming master table Ch8 output setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nrmgmastermixout␣0000␣00␣NC␣1↲

Table 4-91 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrmgmastermixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Master Table Ch8 Output Setting	Roaming Master Table Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

4.7.4 Roaming Mater Table Channel Mix Assignment Setting

After receiving the Roaming Mater Table Channel Mix Assignment Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Mater Table Channel Mix Assignment Setting from the host, refer to the command format table below.

srmgmasterchmixout␣S␣0000␣00␣NC␣1,1↲

Table 4-92 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srmgmasterchmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Roaming Master Table Ch Mixout Setting	Roaming Mater Table Channel Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.7.5 Roaming Mater Table Channel Mix Assignment Acquisition

After receiving the Roaming Mater Table Channel Mix Assignment Acquisition, RUD sends the roaming master table Ch mix assignment to the host via Answer.

(1) Get Command

In case of Roaming Mater Table Channel Mix Assignment Acquisition from the host, refer to the command format table below.

grmgmasterchmixout␣O␣0000␣00␣NC␣1↲

Table 4-93 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgmasterchmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

grmgmasterchmixout␣0000␣00␣NC␣1,1↲

Table 4-94 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgmasterchmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
		system				
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Roaming Master Table Ch Mixout Setting	Roaming Mater Table Channel Mix Assignment Setting	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.7.6 Roaming Mater Table Channel Mix Assignment Notification

Roaming Mater Table Channel Mix Assignment Notification is sent when the roaming master table Ch mix assignment is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nrmgmasterchmixout␣0000␣00␣NC␣1,1↲

Table 4-95 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrmgmasterchmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Roaming Master Table Ch Mixout Setting	Roaming Mater Table Channel Mix Assignment Setting	string	0	OFF	
				1	ON	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

4.8 Preset (Roaming)

4.8.1 Roaming Preset Name Setting

After receiving the Roaming Preset Name Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Preset Name Setting from the host, refer to the command format table below.

srmgpresetname␣S␣0000␣00␣NC␣1,"Preset R01"↲

Table 4-96 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srmgpresetname		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Name	Roaming Preset Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.8.2 Roaming Preset Name Acquisition

After receiving the Roaming Preset Name Acquisition, RUD sends the roaming preset name to the host via Answer.

(1) Get Command

In case of Roaming Preset Name Acquisition from the host, refer to the command format table below.

grmgpresetname␣O␣0000␣00␣NC␣1↲

Table 4-97 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

grmgpresetname␣0000␣00␣NC␣1,"Preset R01 "↲

Table 4-98 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetname		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Name	Roaming Preset Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.8.3 Roaming Preset Name Notification

Roaming Preset Name Notification is sent when the roaming preset name is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nrmgpresetname␣0000␣00␣NC␣1,"Preset R01 "↲

Table 4-99 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrmgpresetname		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Name	Roaming Preset Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters

No	item	Description	type	value	value description	remarks
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.8.4 Roaming Preset Ch8 Output Setting

After receiving the Roaming Preset Ch8 Output Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Preset Ch8 Output Setting from the host, refer to the command format table below.

srmgpresetmixout␣S␣0000␣00␣NC␣1,1↲

Table 4-100 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srmgpresetmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Ch8 Output Setting	Roaming Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.8.5 Roaming Preset Ch8 Output Acquisition

After receiving the Roaming Preset Ch8 Output Acquisition, RUD sends the roaming preset Ch8 output to the host via Answer.

(1) Get Command

In case of Roaming Preset Ch8 Output Acquisition from the host, refer to the command format table below.

grmgpresetmixout␣O␣0000␣00␣NC␣1↲

Table 4-101 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

grmgpresetmixout␣0000␣00␣NC␣1,1↲

Table 4-102 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Ch8 Output Setting	Roaming Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
6	End Character	Message end character	binary	0x0d	CR	

4.8.6 Roaming Preset Ch8 Output Notification

Roaming Preset Ch8 Output Notification is sent when the roaming preset Ch8 output setting is changed from RUD.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nrmgpresetmixout␣0000␣00␣NC␣1,1↵

Table 4-103 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrmgpresetmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Roaming Preset Ch8 Output Setting	Roaming Preset Ch8 Output Setting	string	0	Discrete	
				1	Mixout	
7	End Character	Message end character	binary	0x0d	CR	

4.8.7 Roaming Preset Channel Mix Assignment Setting

After receiving the Roaming Preset Channel Mix Assignment Setting, RUD sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Roaming Preset Channel Mix Assignment Setting from the host, refer to the command format table below.

srmgpresetchmixout␣S␣0000␣00␣NC␣1,1,1↲

Table 4-104 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	srmgpresetchmixout		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
	Roaming Preset Ch Mixout Setting	Roaming Preset Channel Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.8.8 Roaming Preset Channel Mix Assignment Acquisition

After receiving the Roaming Preset Channel Mix Assignment Acquisition, RUD sends the roaming preset Ch mix assignment to the host via Answer.

(1) Get Command

In case of Roaming Preset Channel Mix Assignment Acquisition from the host, refer to the command format table below.

grmgpresetchmixout␣O␣0000␣00␣NC␣1,1↲

Table 4-105 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetchmixout		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

grmgpresetchmixout␣0000␣00␣NC␣1,1,1↲

Table 4-106 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	grmgpresetchmixout		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		
	Roaming Preset Ch Mixout Setting	Roaming Preset Channel Mix Assignment Setting	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.8.9 Notify Roaming Preset Channel Mix Assignment

is sent when the roaming preset Ch mix assignment is changed from RUD.

When Notification Mode Settingis 0 (OFF), it is not sent.

(1) Information

MD␣nrmgpresetchmixout␣0000␣00␣NC␣1,1,1↲

Table 4-107 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nrmgpresetchmixout		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Roaming Preset No.	Roaming Preset Number	string	1 to 8		
	Ch No.	CH number	string	1 to 8		

No	item	Description	type	value	value description	remarks
	Roaming Preset Ch Mixout Setting	Roaming Preset Channel Mix Assignment Setting	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.9 Level

4.9.1 RF Level Acquisition

After receiving the RF Level Acquisition, RU sends the RF level to the host via Answer.

(1) Get Command

In case of RF Level Acquisition from the host, refer to the command format table below.

glevelrf␣O␣0000␣00␣NC␣1↲

Table 4-108 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelrf		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

glevelrf␣0000␣00␣NC␣1,1,3↲

Table 4-109 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelrf		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	RSSI	RSSI	string	0	No LINK During link: Less than -90 dBm	Fixed to 0 in the case of no link.
				1	-90 dBm or more to less than -84 dBm	
				2	-84 dBm or more to less than -78 dBm	
				3	-78 dBm or more to less than -72 dBm	
				4	-72 dBm or more to less than -66 dBm	
				5	-66 dBm or more to less than -60 dBm	
				6	-60 dBm or more to less than -54 dBm	
				7	-54 dBm or more	
6	End Character	Message end character	binary	0x0d	CR	

4.9.2 AF Level Acquisition

After receiving the AF Level Acquisition, RU sends the AF level to the host via Answer.

(1) Get Command

In case of AF Level Acquisition from the host, refer to the command format table below.

glevelafrx␣O␣0000␣00␣NC␣1↲

Table 4-110 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelafrx		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	0	Mixout	
				1 to 8	Ch1 to Ch8	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

glevelafrx␣0000␣00␣NC␣1,1,3↲

Table 4-111 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelafrx		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	Specify Mixout or no link	Fixed to 0 when Mixout is specified.
				1	During LINK	
	AF LEVEL	AF Level	string	0	No LINK During Link: Less than -50 dBFS	Fixed to 0 in the case of no link.

No	item	Description	type	value	value description	remarks
				1	50 dBFS or more to less than -40 dBFS	
				2	-40 dBFS or more to less than -30 dBFS	
				3	-30 dBFS or more to less than -20 dBFS	
				4	-20 dBFS or more to less than -12 dBFS	
				5	-12 dBFS or more to less than -6 dBFS	
				6	-6 dBFS or more to less than -1 dBFS	
				7	-1 dBFS or more	
6	End Character	Message end character	binary	0x0d	CR	

4.9.3 TX Battery Level Acquisition

After receiving the TX Battery Level Acquisition, RU sends the TX battery level to the host via Answer.

(1) Get Command

In case of Battery Level Acquisition from the host, refer to the command format table below.

glevelbatttx␣O␣0000␣00␣NC␣1↲

Table 4-112 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelbatttx		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				

No	item	Description	type	value	value description	remarks
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

glevelbatttx␣0000␣00␣NC␣1,1,14,0336,0↲

Table 4-113 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelbatttx		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	BATTERY LEVEL	Battery level	string	0 to 100	0 to 100%	Fixed to 0 in the case of no link.
	BATTERY LIFE	Remaining battery life	string	0000 to 9959	HHMM (in increments of 1 min)	Fixed to 0000 in the case of no LINK.
	USB Charging status	USB charging status	string	0	USB not connected	Fixed to 0 in the case of no link.
				1	Charging with USB	
6	End Character	Message end character	binary	0x0d	CR	

4.9.4 TX Battery Level Notification

TX Battery Level Notification is sent when the TX battery level parameter is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlevelbatttx␣0000␣00␣NC␣1,1,14,0336,0↲

Table 4-114 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlevelbatttx		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	BATTERY LEVEL	Battery level	string	0 to 100	0 to 100%	Fixed to 0 in the case of no link.
	BATTERY LIFE	Remaining battery life	string	0000 to 9959	HHMM (in increments of 1 min)	Fixed to 0000 in the case of no LINK.
	USB Charging status	USB charging status	string	0	USB not connected	Fixed to 0 in the case of no link.
				1	Charging with USB	
7	End Character	Message end character	binary	0x0d	CR	

4.9.5 All Levels Notification

All Levels Notification is sent by RU regularly based on the setting value of Level Notification Intervals Setting.

When Notification Mode Settingis 0 (OFF), or Level Notification Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlevelall␣0000␣00␣NC␣

1,8,1,0,0,0,2,1,7,0,3,0,0,0,4,1,7,0,5,0,0,0,6,1,7,0,7,1,7,0,8,0,0,0↲

Table 4-115 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlevelall		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Mixout AF LEVEL	Mix Assignment AF Level	string	0	Less than -50 dBFS	
				1	50 dBFS or more to less than -40 dBFS	
				2	-40 dBFS or more to less than -30 dBFS	
				3	-30 dBFS or more to less than -20 dBFS	
				4	-20 dBFS or more to less than -12 dBFS	
				5	-12 dBFS or more to less than -6 dBFS	
				6	-6 dBFS or more to less than -1 dBFS	
				7	-1 dBFS or more	
	Ch Level Data Num.	Number of Ch level data	string	8		
	Ch Level Data.	Ch level data (Information is repeated as many times as the number of data or less.)				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	RSSI	RSSI	string	0	No LINK During link: Less than -90 dBm	Fixed to 0 in the case of no link.
				1	-90 dBm or more to less than -84 dBm	
				2	-84 dBm or more to less than -78 dBm	
				3	-78 dBm or more to less than -72 dBm	
				4	-72 dBm or more to less than -66 dBm	
				5	-66 dBm or more to less than -60 dBm	

No	item	Description	type	value	value description	remarks
				6	-60 dBm or more to less than -54 dBm	
				7	-54 dBm or more	
	Ch AF LEVEL	Ch AF Level	string	0	Less than -50 dBFS	Fixed to 0 in the case of no link.
				1	50 dBFS or more to less than -40 dBFS	
				2	-40 dBFS or more to less than -30 dBFS	
				3	-30 dBFS or more to less than -20 dBFS	
				4	-20 dBFS or more to less than -12 dBFS	
				5	-12 dBFS or more to less than -6 dBFS	
				6	-6 dBFS or more to less than -1 dBFS	
				7	-1 dBFS or more	
7	End Character	Message end character	binary	0x0d	CR	

4.9.6 Battery Level Acquisition

After receiving the Battery Level Acquisition, CHG sends the battery level to the host via Answer.

(1) Get Command

In case of Battery Level Acquisition from the host, refer to the command format table below.

glevelbatt␣O␣0000␣00␣NC␣1↲

Table 4-116 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelbatt		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				

No	item	Description	type	value	value description	remarks
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

glevelbatt␣0000␣00␣NC␣1,1,100,154,100,0000,22,0000↲

Table 4-117 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glevelbatt		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	Charging Port Status	Charging port status	string	0	Not Set	
				1	Set	
	BATTERY LEVEL	Battery level	string	0 to 100	0 to 100%	Fixed to 0 in the case of Not Set.
	BATTERY Cycle	Battery cycle	string	0 to 9999		Fixed to 0 in the case of Not Set.
	BATTERY Health	Battery health	string	0 to 100		Fixed to 0 in the case of Not Set.
	BATTERY Time to Full Charge	Time to full charge	string	0000 to 9959	00 hours 00 minutes to 99 hours 59 minutes	Fixed to 0000 in the case of Not Set.
	BATTERY Temp	Battery temperature	string	-40 to 99	-40°C to 99°C	Fixed to 0 in the case of Not Set.
	BATTERY Charging Error Flag	Battery charge error flag	string	0000 to FFFF	Charging with USB	0 x 0000 to 0 x ffff (error flag (16 bits)) 0000 0000 0000 0000b: no warning/error **** **** **** *** 1b: [Warning] Communication error **** **** **** ** 1*b: [Warning] Low temperature

No	item	Description	type	value	value description	remarks
						**** **** **** * 1**b: [Warning] Battery degraded **** **** **** 1***b: [Error] High temperature **** **** **** ***1 ****b: [Error] Low sound **** **** **1* ****b: [Error] Communication error **** **** *1** ****b: [Error] Short circuit **** **** 1*** ****b: [Error] Overvoltage **** ***1 **** ****b: Reserved bit 0 **** **1* **** ****b: Reserved bit 1 **** *1** **** ****b: Reserved bit 2 **** 1*** **** ****b: Reserved bit 3 ***1 **** **** ****b: Reserved bit 4 **1* **** **** ****b: Reserved bit 5 *1** **** **** ****b: Reserved bit 6 1*** **** **** ****b: Reserved bit 7
6	End Character	Message end character	binary	0x0d	CR	

4.9.7 Battery Level Notification

Battery Level Notification is sent when the battery level parameter is updated from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlevelbatt␣0000␣00␣NC␣1,1,100,154,100,0000,22,0000↲

Table 4-118 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlevelbatt		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	Charging Port Status	Charging port status	string	0	Not Set	
				1	Set	
	BATTERY LEVEL	Battery level	string	0 to 100	0 to 100%	Fixed to 0 in the case of Not Set.
	BATTERY Cycle	Battery cycle	string	0 to 9999		Fixed to 0 in the case of Not Set.
	BATTERY Health	Battery health	string	0 to 100		Fixed to 0 in the case of Not Set.
	BATTERY Time to Full Charge	Time to full charge	string	0000 to 9959	00 hour to 00 minute to 99 hours 59 minutes	Fixed to 0000 in the case of Not Set.
	BATTERY Temp	Battery temperature	string	-40 to 99	-40°C to 99°C	Fixed to 0 in the case of Not Set.
	BATTERY Charging Error Flag	Battery charge error flag	string	0000 to FFFF	Charging with USB	0 x 0000 to 0 x ffff (error flag (16 bits)) 0000 0000 0000 0000b: no warning/error **** **** **** *** 1b: [Warning] Communication error **** **** **** ** 1*b: [Warning] Low temperature **** **** **** * 1**b: [Warning] Battery degraded **** **** **** 1***b: [Error] High temperature **** **** **** ***1 ****b: [Error] Low sound **** **** **1* ****b: [Error] Communication error **** **** *1** ****b: [Error] Short circuit **** **** 1*** ****b: [Error] Overvoltage **** ***1 **** ****b: Reserved bit 0 **** **1* **** ****b: Reserved bit 1 **** *1** **** ****b: Reserved bit 2

No	item	Description	type	value	value description	remarks
						**** 1*** **** ****b: Reserved bit 3 ***1 **** **** ****b: Reserved bit 4 **1* **** **** ****b: Reserved bit 5 *1** **** **** ****b: Reserved bit 6 1*** **** **** ****b: Reserved bit 7
7	End Character	Message end character	binary	0x0d	CR	

4.10 Status

4.10.1 TX Status Acquisition

After receiving the TX Status Acquisition, RU sends the TX status to the host via Answer.

(1) Get Command

In case of TX Status Acquisition from the host, refer to the command format table below.

gststx␣O␣0000␣00␣NC␣1↲

Table 4-119 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gststx		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gststx␣0000␣00␣NC␣1,1,"035700DE98",0↲

Table 4-120 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gststx		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	LINK TX ID(DECT ID)	TX ID during LINK (DECT ID)	char	"	Beginning of character string	
			string	ASCII code	DECT ID	10 characters Fixed to 0000000000 in the case of no LINK.
			char	"	End of character string	
	External Mic Connection status	External microphone connection status (BP only)	string	0	Not connected	Fixed to 0 in the case of no LINK or other than BP.
				1	Connected	
6	End Character	Message end character	binary	0x0d	CR	

4.10.2 TX Status Notification

TX Status Notification is sent when the TX status parameter is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nststx␣0000␣00␣NC␣1,1,"035700DE98",0↲

Table 4-121 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nststx		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch LINK Status	Ch Link status	string	0	No LINK	
				1	During LINK	
	LINK TX ID(DECT ID)	TX ID during LINK (DECT ID)	char	"	Beginning of character string	
			string	ASCII code	DECT ID	10 characters Fixed to 0000000000 in the case of no LINK.
			char	"	End of character string	
	External Mic Connection status	External microphone connection status (BP only)	string	0	Not connected	Fixed to 0 in the case of no LINK or other than BP.
7	End Character	Message end character	binary	0x0d	CR	

4.10.3 Mute Status Acquisition

After receiving the Mute Status Acquisition, RU sends the mute status to the host via Answer.

(1) Get Command

In case of Mute Status Acquisition from the host, refer to the command format table below.

gstsmute␣O␣0000␣00␣NC␣1↲

Table 4-122 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gstsmute		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gstsmute␣0000␣00␣NC␣1,0,1↲

Table 4-123 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gstsmute		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mute	Channel mute	string	0	MUTE OFF	
				1	MUTE ON	
	TX Mute	TX mute	string	0	MUTE OFF	Always 0 if TX is No LINK.
				1	MUTE ON	

No	item	Description	type	value	value description	remarks
6	End Character	Message end character	binary	0x0d	CR	

4.10.4 Mute Status Notification

Mute Status Notification is sent when the mute status parameter is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nstmute␣0000␣00␣NC␣1,1,0↲

Table 4-124 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nstsmute		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Ch Mute	Channel mute	string	0	MUTE OFF	
				1	MUTE ON	
	TX Mute	TX mute	string	0	MUTE OFF	Always 0 if TX is No LINK.
				1	MUTE ON	
7	End Character	Message end character	binary	0x0d	CR	

4.11 Operation

4.11.1 Reboot Request

After receiving Reboot Request, RU or CHG sends the processing results to the host via ACK or NAK.

(1) Request Command

In case of Reboot Request from the host, refer to the command format table below.

rreboot␣S␣0000␣00␣NC␣↲

Table 4-125 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rreboot		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.2 Reboot Notification

Reboot Notification is sent when RU or CHG is rebooted.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nreboot␣0000␣00␣NC␣1,1↲

Table 4-126 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nreboot		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Operation at Reset	Operation at reset	string	1	Local operation (Button operation)	
				2	Remote operation (IP operation)	
	Reset type	Reset type	string	1	Reset only (rreboot, etc.)	
				2	Factory reset	
				3	Reset to comply with Network Setting Change	
				4	WDT (watchdog)	
				5	Dante reset	
				6	Frequency limit settings (Not installed on the Device)	
				7	MCU update	
				8	Firmware (DSP, FPGA) update	
				9	Synchro-reader lost	
7	End Character	Message end character	binary	0x0d	CR	

4.11.3 Factory Reset Request

After receiving Factory Reset Request, RU or CHG sends the processing results to the host via ACK or NAK.

It is necessary to restart the device after this command is executed successfully to set it to the factory shipping state.

(1) Request Command

In case of Factory Reset Request from the host, refer to the command format table below.

rfactoryreset␣S␣0000␣00␣NC␣↲

Table 4-127 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rfactoryreset		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.4 LED Lighting Request

After receiving LED Lighting Request, RU or CHG sends the processing results to the host via ACK or NAK.

LED flashing of Identify stops about 5 seconds after it starts.

(1) Request Command

In case of LED Lighting Request from the host, refer to the command format table below.

rledflash␣S␣0000␣00␣NC␣0,1↲

Table 4-128 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rledflash		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Target	Flash target	string	0	System	RU is valid only for the system.
				1 to 8	CHG Port Number	
	Operation	Operation	string	0	Flash stops.	
				1	Identify flash starts.	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.5 Master Table Call Request

After receiving the Master Table Call Request, the RU sends the processing results to the host via ACK or NAK.

After receiving this command, it takes about 5 seconds to send an ACK response.

After this command succeeds, Last Preset Call Notification is notified.

(1) Request Command

In case of Master Table Call Request from the host, refer to the command format table below.

rmastercall␣S␣0000␣00␣NC␣↲

Table 4-129 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rmastercall		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.6 Preset Call Request

After receiving the Preset Call Request, the RU sends the processing results to the host via ACK or NAK.

After receiving this command, it takes about 5 seconds to send an ACK response.

After this command succeeds, Last Preset Call Notification is notified.

(1) Req Command

In case of Preset Call Request from the host, refer to the command format table below.

rpresetcall␣S␣0000␣00␣NC␣↲

Table 4-130 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rpresetcall		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Recall Preset No.	Recall preset No.	string	1 to 8	Preset number	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.7 Last Preset Call Acquisition

After receiving the Last Preset Call Acquisition, RU sends the last preset call to the host via Answer.

(1) Get Command

In case of Last Preset Call Acquisition from the host, refer to the command format table below.

glastpreset␣O␣0000␣00␣NC␣↲

Table 4-131 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glastpreset		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

glastpreset␣0000␣00␣NC␣1↲

Table 4-132 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glastpreset		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Recall No.	Recall No.	string	0	Master Table	
				1 to 8	Preset number	
6	End Character	Message end character	binary	0x0d	CR	

4.11.8 Last Preset Call Notification

Last Preset Call Notification is sent when the master table or preset call is executed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlastpreset␣0000␣00␣NC␣1↵

Table 4-133 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlastpreset		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Recall No.	Recall No.	string	0	Master Table	
				1 to 8	Preset number	
7	End Character	Message end character	binary	0x0d	CR	

4.11.9 UDP Transmission Request

After receiving UDP Transmission Request, RU or CHG sends the processing results to the host via ACK or NAK.

After this command succeeds, UDP Transmission Notification is notified.

In case of UDP Transmission Request from the host, refer to the command format table below.

(1) Request Command

rudpecho␣S␣0000␣00␣NC␣↲

Table 4-134 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rudpecho		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.11.10 UDP Transmission Notification

UDP Transmission Notification is sent when UDP Transmission Request is received correctly from RU or CHG.

Even if Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nudpecho␣0000␣00␣NC␣↲

Table 4-135 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nudpecho		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

4.12 Network

4.12.1 IP Network Information Setting

After receiving the IP Network Information Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of executing the command from the host, refer to the command format table below.

sipnet␣S␣0000␣00␣NC␣0,192.168.0.27,255.255.255.0,192.168.0.2,1↲

Table 4-136 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sipnet		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	IP config mode	IP address decision method	string	0	Auto	
				1	Static	

No	item		Description	type	value	value description	remarks
		IP address	IP address	string	0.0.0.0 to 255.255.255.255	IP address	
		Subnet mask	Subnet mask	string	0.0.0.0 to 255.255.255.255	Subnet mask	
		Gateway address	Default gateway	string	0.0.0.0 to 255.255.255.255	Default gateway	
		UPnP(Device auto-detection)	UPnP (Automatic device detection)	string	0	OFF	
					1	ON	
7	End Character		Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.12.2 IP Network Information Acquisition

After receiving IP Network Information Acquisition, RUD or CHG sends the IP network information to the host via Answer.

(1) Get Command

In case of IP Network Information Acquisition from the host, refer to the command format table below.

gipnet␣O␣0000␣00␣NC␣↲

Table 4-137 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gipnet		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gipnet␣0000␣00␣NC␣0,192.168.0.27,255.255.255.0,192.168.0.2,1,
00-0A-45-19-12-B2↲

Table 4-138 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gipnet		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	IP config mode	IP address decision method	string	0	Auto	
				1	Static	
	IP address	IP address	string	0.0.0.0 to 255.255.255.255	IP address	
	Subnet mask	Subnet mask	string	0.0.0.0 to 255.255.255.255	Subnet mask	
	Gateway address	Default gateway	string	0.0.0.0 to 255.255.255.255	Default gateway	
	UPnP(Device auto-detection)	UPnP (Automatic device detection)	string	0	OFF	

No	item	Description	type	value	value description	remarks
				1	ON	
	Mac address	Mac address	string	XX-XX-XX-YY-YY-YY	Mac address	
6	End Character	Message end character	binary	0x0d	CR	

4.12.3 IP Network Information Notification

IP Network Information Notification is sent when the network information is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nipnet␣0000␣00␣NC␣0,192.168.0.27,255.255.255.0,192.168.0.2,1,
00-0A-45-19-12-B2↲

Table 4-139 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nipnet		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	IP config mode	IP address decision method	string	0	Auto	
				1	Static	
	IP address	IP address	string	0.0.0.0 to 255.255.255.255	IP address	
	Subnet mask	Subnet mask	string	0.0.0.0 to 255.255.255.255	Subnet mask	
	Gateway address	Default gateway	string	0.0.0.0 to 255.255.255.255	Default gateway	
	UPnP(Device auto-detection)	UPnP (Automatic device detection)	string	0	OFF	
				1	ON	

No	item	Description	type	value	value description	remarks
	Mac address	Mac address	string	XX-XX-XX-YY-YY-YY	Mac address	
7	End Character	Message end character	binary	0x0d	CR	

4.12.4 ESW-R4180LK MAC Address Acquisition

After receiving the ESW-R4180LK MAC Address Acquisition, RUA sends the MAC address to the host via Answer.

(1) Get Command

In case of ESW-R4180LK MAC Address Acquisition from the host, refer to the command format table below.

glkmacaddress␣O␣0000␣00␣NC␣↲

Table 4-140 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glkmacaddress		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUA.

glkmacaddress␣0000␣00␣NC␣00-0A-45-19-12-B2↲

Table 4-141 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glkmacaddress		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
6	Mac address	Mac address	string	XX-XX-XX-YY-YY-YY	Mac address	
7	End Character	Message end character	binary	0x0d	CR	

4.13 Notification

4.13.1 Notification Mode Setting

After receiving Notification Mode Setting, RU or CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Notification Mode Setting from the host, refer to the command format table below.

snoticemode␣S␣0000␣00␣NC␣1↲

Table 4-142 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	snoticemode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Notification Mode	Notification Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.13.2 Notification Mode Acquisition

After receiving Notification Mode Acquisition, RU or CHG sends the notification mode to the host via Answer.

(1) Get Command

In case of Notification Mode Acquisition from the host, refer to the command format table below.

gnoticemode␣O␣0000␣00␣NC␣↲

Table 4-143 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticemode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gnoticemode␣0000␣00␣NC␣1↲

Table 4-144 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticemode		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Notification Mode	Notification Mode	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.13.3 Notification Mode Notification

Notification Mode Notification is sent when the notification mode is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nnoticemode␣0000␣00␣NC␣1↲

Table 4-145 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nnoticemode		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Notification Mode	Notification Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.13.4 Level Notification Setting

After receiving the Level Notification Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Level Notification Setting from the host, refer to the command format table below.

snoticelevel␣S␣0000␣00␣NC␣1↲

Table 4-146 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	snoticelevel		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Level Notification	Level Notification	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.13.5 Level Notification Acquisition

After receiving Level Notification Acquisition, RU sends the level notification to the host via Answer.

(1) Get Command

In case of Level Notification Acquisition from the host, refer to the command format table below.

gnoticelevel␣O␣0000␣00␣NC␣↲

Table 4-147 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticelevel		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gnoticelevel␣0000␣00␣NC␣1↲

Table 4-148 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticelevel		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Level Notification	Level Notification	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.13.6 Level Notification

Level Notification is sent when Level Notification Setting is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nnoticelevel␣0000␣00␣NC␣1↲

Table 4-149 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nnoticelevel		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Level Notification	Level Notification	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.13.7 Level Notification Intervals Setting

After receiving the Level Notification Intervals Setting, the RU sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of Level Notification Intervals Setting from the host, refer to the command format table below.

snoticelevelinterval␣S␣0000␣00␣NC␣1↲

Table 4-150 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	snoticelevelinterval		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Level Notification Interval	Level Notification Intervals	string	1 to 600	1: 100 to 600: 60000 ms (100ms/step)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.13.8 Level Notification Intervals Acquisition

After receiving the Level Notification Intervals Acquisition, RU sends the level notification interval to the host via Answer.

(1) Get Command

In case of Level Notification Intervals Acquisition from the host, refer to the command format table below.

gnoticelevelinterval␣O␣0000␣00␣NC␣↲

Table 4-151 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticelevelinterval		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gnoticelevelinterval␣0000␣00␣NC␣1↲

Table 4-152 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticelevelinterval		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Level Notification Interval	Level Notification Intervals	string	1 to 600	1: 100 to 600: 60000 ms (100ms/step)	
6	End Character	Message end character	binary	0x0d	CR	

4.13.9 Level Notification Intervals Notification

Level Notification Intervals Notification is sent when the level notification interval is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nnoticelevelinterval␣0000␣00␣NC␣1↲

Table 4-153 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		

No	item	Description	type	value	value description	remarks
2	Command	Command string	string	nnoticelevelinterval		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Level Notification Interval	Level Notification Intervals	string	1 to 600	1: 100 to 600: 60000 ms (100ms/step)	
7	End Character	Message end character	binary	0x0d	CR	

4.13.10 Multicast Address Setting

After receiving Multicast Address Setting, RU or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of Multicast Address Setting from the host, refer to the command format table below.

snoticeaddress␣S␣0000␣00␣NC␣239.0.0.100↲

Table 4-154 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	snoticeaddress		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Multicast address	Multicast address	string	224.0.0.0 to 239.255.255.255	Multicast address	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.13.11 Multicast Address Acquisition

After receiving the Multicast Address Acquisition, RUD or CHG sends the multicast address setting to the host via Answer.

(1) Get Command

In case of Multicast Address Acquisition from the host, refer to the command format table below.

gnoticeaddress␣O␣0000␣00␣NC␣↲

Table 4-155 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticeaddress		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gnoticeaddress␣0000␣00␣NC␣239.0.0.100↲

Table 4-156 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticeaddress		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Multicast address	Multicast address	string	224.0.0.0 and later 239.255.255.255	Multicast address	
6	End Character	Message end character	binary	0x0d	CR	

4.13.12 Multicast Address Notification

Multicast Address Notification is sent when the multicast address is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nnoticeaddress␣0000␣00␣NC␣239.0.0.100↲

Table 4-157 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nnoticeaddress		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Multicast address	Multicast address	string	224.0.0.0 to 239.255.255.255	Multicast address	
7	End Character	Message end character	binary	0x0d	CR	

4.13.13 Multicast Port Number Setting

After receiving the Multicast Port Number Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of Multicast Port Number Setting from the host, refer to the command format table below.

snoticeportno␣S␣0000␣00␣NC␣17000↲

Table 4-158 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	snoticeportno		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Multicast Port No.	Multicast port number	string	1 to 65535	Multicast port number	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.13.14 Multicast Port Number Acquisition

After receiving the Multicast Port Number Acquisition, RUD or CHG sends the multicast port number to the host via Answer.

(1) Get Command

In case of Multicast Port Number Acquisition from the host, refer to the command format table below.

gnoticeportno␣O␣0000␣00␣NC␣↲

Table 4-159 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticeportno		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gnoticeportno␣0000␣00␣NC␣17000↲

Table 4-160 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gnoticeportno		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Multicast Port No.	Multicast port number	string	1 to 65535	Multicast port number	
6	End Character	Message end character	binary	0x0d	CR	

4.13.15 Multicast Port Number Notification

Multicast Port Number Notification is sent when the multicast port No. is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nnoticeportno␣0000␣00␣NC␣17000↲

Table 4-161 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nnoticeportno		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Multicast Port No.	Multicast port number	string	1 to 65535	Multicast port number	
7	End Character	Message end character	binary	0x0d	CR	

4.14 Log

4.14.1 System Log Setting

After receiving System Log Setting, RU or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes. (Reboot is not required for RUA.)

(1) Set Command

In case of System Log Setting from the host, refer to the command format table below.

slogmode␣S␣0000␣00␣NC␣1↲

Table 4-162 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	slogmode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Syslog Mode	Syslog mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.2 System Log Acquisition

After receiving System Log Acquisition, RU or CHG sends the system log mode to the host via Answer.

(1) Get Command

In case of System Log Acquisition from the host, refer to the command format table below.

glogmode␣O␣0000␣00␣NC␣↲

Table 4-163 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glogmode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

glogmode␣0000␣00␣NC␣1↲

Table 4-164 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	glogmode		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Syslog Mode	Syslog mode	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.14.3 System Log Notification

System Log Notification is sent when the system log mode is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nlogmode␣0000␣00␣NC␣1↲

Table 4-165 Command Format

No	item	Description	type	value	value description	remarks

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nlogmode		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Syslog Mode	Syslog mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.14.4 NTP Setting

After receiving the NTP Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of NTP Setting from the host, refer to the command format table below.

sntpmode␣S␣0000␣00␣NC␣1↲

Table 4-166 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sntpmode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Enable Mode	NTP enable mode	string	0	OFF	

No	item	Description	type	value	value description	remarks
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.5 NTP Acquisition

After receiving NTP Acquisition, RUD or CHG sends the NTP enable mode to the host via Answer.

(1) Get Command

In case of NTP Acquisition from the host, refer to the command format table below.

gntpmode␣O␣0000␣00␣NC␣↲

Table 4-167 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpmode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gntpmode␣0000␣00␣NC␣1↲

Table 4-168 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpmode		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	NTP Enable Mode	NTP enable mode	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.14.6 NTP Notification

NTP Notification is sent when the NTP enable mode is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nntpmode␣0000␣00␣NC␣1↲

Table 4-169 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nntpmode		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Enable Mode	NTP enable mode	string	0	OFF	
				1	ON	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

4.14.7 NTP Server Address Setting

After receiving the NTP Server Address Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of NTP Server Address Setting from the host, refer to the command format table below.

sntpserveraddress␣S␣0000␣00␣NC␣192.168.0.40↲

Table 4-170 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sntpserveraddress		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Server address	NTP Server Address	string	0.0.0.0 to 255.255.255.255	NTP Server Address	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.8 NTP Server Address Acquisition

After receiving the NTP Server Address Acquisition, RUD or CHG sends the NTP server address to the host via Answer.

(1) Get Command

In case of NTP Server Address Acquisition from the host, refer to the command format table below.

gntpserveraddress␣O␣0000␣00␣NC␣↲

Table 4-171 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpserveraddress		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gsntpserveraddress␣0000␣00␣NC␣192.168.0.40↲

Table 4-172 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpserveraddress		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	NTP Server address	NTP Server Address	string	0.0.0.0 to 255.255.255.255	NTP Server Address	
6	End Character	Message end character	binary	0x0d	CR	

4.14.9 NTP Server Address Notification

NTP Server Address Notification is sent when the NTP server address is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nntpserveraddress␣0000␣00␣NC␣192.168.0.40↲

Table 4-173 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nntpserveraddress		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Server address	NTP Server Address	string	0.0.0.0 to 255.255.255.255	NTP Server Address	
7	End Character	Message end character	binary	0x0d	CR	

4.14.10 NTP Server Port Number Setting

After receiving the NTP Server Port Number Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of NTP Server Port Number Setting from the host, refer to the command format table below.

sntpserverportno␣S␣0000␣00␣NC␣123↲

Table 4-174 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sntpserverportno		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Server Port No.	NTP Server Port No.	string	1 to 65535	NTP Server Port No.	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.11 NTP Server Port Number Acquisition

After receiving the NTP Server Port Number Acquisition, RUD or CHG sends the NTP server port number to the host via Answer.

(1) Get Command

In case of NTP Server Port Number Acquisition from the host, refer to the command format table below.

gntpserverportno␣O␣0000␣00␣NC␣↲

Table 4-175 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpserverportno		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gntpserverportno␣0000␣00␣NC␣123↲

Table 4-176 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntpserverportno		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	NTP Server Port No.	NTP Server Port No.	string	1 to 65535	NTP Server Port No.	
6	End Character	Message end character	binary	0x0d	CR	

4.14.12 NTP Server Port Number Notification

NTP Server Port Number Notification is sent when the NTP server port number is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nntpserverportno␣0000␣00␣NC␣123↲

Table 4-177 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		

No	item	Description	type	value	value description	remarks
2	Command	Command string	string	nntpserverportno		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	NTP Server Port No.	NTP Server Port No.	string	1 to 65535	NTP Server Port No.	
7	End Character	Message end character	binary	0x0d	CR	

4.14.13 NTP Time Zone Setting

After receiving the NTP Time Zone Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of NTP Time Zone Setting from the host, refer to the command format table below.

sntptimezone␣S␣0000␣00␣NC␣+09:00↲

Table 4-178 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sntptimezone		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	TIME ZONE	Difference from GMT	string	-12:00 to +14:00	±HHMM (in increments of 30 minutes)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.14 NTP Time Zone Acquisition

After receiving NTP Time Zone Acquisition, RUD or CHG sends the NTP time zone to the host via Answer.

(1) Get Command

In case of NTP Time Zone Acquisition from the host, refer to the command format table below.

gntptimezone␣O␣0000␣00␣NC␣↲

Table 4-179 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntptimezone		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gntptimezone␣0000␣00␣NC␣+09:00↲

Table 4-180 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gntptimezone		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	TIME ZONE	Difference from GMT	string	-12:00 to +14:00	±HHMM (in increments of 30 minutes)	
6	End Character	Message end character	binary	0x0d	CR	

4.14.15 NTP Time Zone Notification

NTP Time Zone Notification is sent when the NTP time zone is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nntptimezone␣0000␣00␣NC␣+09:00↲

Table 4-181 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nntptimezone		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	TIME ZONE	Difference from GMT	string	-12:00 to +14:00	±HHMM (in increments of 30 minutes)	
7	End Character	Message end character	binary	0x0d	CR	

4.14.16 Daylight Saving Time Setting

After receiving the Daylight Saving Time Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of Daylight Saving Time Setting from the host, refer to the command format table below.

sdstmode␣S␣0000␣00␣NC␣1↲

Table 4-182 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sdstmode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Daylight-Savings Time	Daylight Saving Time Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.17 Daylight Saving Time Acquisition

After receiving Daylight Saving Time Acquisition, RUD or CHG sends the daylight saving time mode to the host via Answer.

(1) Get Command

In case of Daylight Saving Time Acquisition from the host, refer to the command format table below.

gdstmode␣O␣0000␣00␣NC␣↲

Table 4-183 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdstmode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gdstmode␣0000␣00␣NC␣1↲

Table 4-184 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdstmode		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Daylight-Savings Time	Daylight Saving Time Mode	string	0	OFF	
				1	ON	
6	End Character	Message end character	binary	0x0d	CR	

4.14.18 Daylight Saving Time Notification

Daylight Saving Time Notification is sent when the daylight saving time mode is changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ndstmode␣0000␣00␣NC␣1↲

Table 4-185 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ndstmode		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Daylight-Savings Time	Daylight Saving Time Mode	string	0	OFF	
				1	ON	
7	End Character	Message end character	binary	0x0d	CR	

4.14.19 Start and End Dates of Daylight Saving Time Setting

After receiving the Start and End Dates of Daylight Saving Time Setting, the RUD or CHG sends the processing results to the host via ACK or NAK.

The parameters are reflected after rebooting the device, and reboot is required to correctly reflect setting changes.

(1) Set Command

In case of executing the command from the host, refer to the command format table below.

sdstdatetime␣S␣0000␣00␣NC␣03270200,10300200↲

Table 4-186 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sdstdatetime		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	DST Start Date	Start date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
	DST End Date	End date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.14.20 Start and End Dates of Daylight Saving Time Acquisition

After receiving Start and End Dates of Daylight Saving Time Acquisition, RUD or CHG sends the start and end dates of daylight saving time to the host via Answer.

(1) Get Command

In case of Start and End Dates of Daylight Saving Time Acquisition from the host, refer to the command format table below.

gdstdatetime␣O␣0000␣00␣NC␣↲

Table 4-187 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdstdatetime		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD or CHG.

gdstdatetime␣0000␣00␣NC␣03270200,10300200↲

Table 4-188 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdstdatetime		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	DST Start Date	Start date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
	DST End Date	End date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
6	End Character	Message end character	binary	0x0d	CR	

4.14.21 Start and End Dates of Daylight Saving Time Notification

Start and End Dates of Daylight Saving Time Notification is sent when the start and end dates of daylight saving time mode are changed from RUD or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ndstdatetime␣0000␣00␣NC␣03270200,10300200↲

Table 4-189 Command Format

No	item	Description	type	value	value description	remarks

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ndstdatetime		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	DST Start Date	Start date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
	DST End Date	End date of daylight saving time	string	01010000 to 12312300	MMDDHHmm (in increments of 30 min)	
7	End Character	Message end character	binary	0x0d	CR	

4.15 Dante

4.15.1 Dante IP Setting Acquisition

After receiving Dante IP Setting Acquisition, RUD sends the Dante IP network information to the host via Answer.

(1) Get Command

In case of Dante IP Setting Acquisition from the host, refer to the command format table below.

gdantenet␣O␣0000␣00␣NC␣↲

Table 4-190 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantenet		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gdantenet ␣0000␣00␣NC␣0,0.0.0.0,255.255.255.0,192.168.0.2,
00-0A-45-FF-FF-F9,0↲

Table 4-191 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantenet		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	IP config mode	IP address decision method	string	0	Auto	
				1	Static	
	IP address	IP address	string	0.0.0.0 to 255.255.255.255	IP address	
	Subnet mask	Subnet mask	string	0.0.0.0 to 255.255.255.255	Subnet mask	
	Gateway address	Default gateway	string	0.0.0.0 to 255.255.255.255	Default gateway	
	Mac address	Mac address	string	XX-XX-XX-YY-YY-YY	Mac address	
	VLAN Mode	VLAN Mode	string	0	Single	
				1	Split	
6	End Character	Message end character	binary	0x0d	CR	

4.15.2 Dante Device Name Acquisition

After receiving the Dante Device Name Acquisition, RUD sends the Dante device name to the host via Answer.

(1) Get Command

In case of Dante Device Name Acquisition from the host, refer to the command format table below.

gdantedevicename␣O␣0000␣00␣NC␣1↲

Table 4-192 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantedevicename		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gdantedevicename␣0000␣00␣NC␣"R4180-efff04"↲

Table 4-193 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantedevicename		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Device Name	Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 32 characters
			char	"	End of character string	

No	item	Description	type	value	value description	remarks
6	End Character	Message end character	binary	0x0d	CR	

4.15.3 Dante Channel Label Name Acquisition

After receiving the Dante Channel Label Name Acquisition, RUD sends the Dante channel label name to the host via Answer.

(1) Get Command

In case of Dante Channel Label Name Acquisition from the host, refer to the command format table below.

gdantechannellabel␣O␣0000␣00␣NC␣1↲

Table 4-194 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantechannellabel		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gdantechannellabel␣0000␣00␣NC␣1,"RX1 Output"↲

Table 4-195 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantechannellabel		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Ch No.	CH number	string	1 to 8		
	Dante Ch Label	Dante Channel Label Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 32 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.15.4 Dante Information Acquisition

After receiving the Dante Information Acquisition, RUD sends the Dante Information to the host via Answer.

(1) Get Command

In case of Dante Information Acquisition from the host, refer to the command format table below.

gdantemodelname␣O␣0000␣00␣NC␣↲

Table 4-196 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantemodelname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gdantemodelname␣0000␣00␣NC␣"Broadway"↲

Table 4-197 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdantemodelname		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Model Name	Model name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 18 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.15.5 Dante FW Version Acquisition

After receiving the Dante FW Version Acquisition, RUD sends the Dante FW version information to the host via Answer.

(1) Get Command

In case of Dante FW Version Acquisition from the host, refer to the command format table below.

gdanteversion␣O␣0000␣00␣NC␣↲

Table 4-198 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdanteversion		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RUD.

gdanteversion␣0000␣00␣NC␣"4264","4048"↲

Table 4-199 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gdanteversion		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	FW Version	Dante FW version	char	"	Beginning of character string	
			string	ASCII code	Version	4 characters
			char	"	End of character string	
	HW Version	Dante HW Version	char	"	Beginning of character string	
			string	ASCII code	Version	4 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.16 TX

4.16.1 TX Model Name Acquisition

After receiving TX Model Name Acquisition, CHG sends the TX model name to the host via Answer.

(1) Get Command

From the host

After receiving the Model Name AcquisitionIn case of TX Model Name Acquisition, refer to the command format table below.

gtxmodel␣O␣0000␣00␣NC␣1↲

Table 4-200 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmodel		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxmodel␣0000␣00␣NC␣1,"ESW-T4106 "↲

Table 4-201 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmodel		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	Model Name	Model name	char	"	Beginning of character string	
			string	ASCII code	ASCII code	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.16.2 TX Version Acquisition

After receiving the TX Version Acquisition, CHG sends the TX version information to the host via Answer.

(1) Get Command

In case of TX Version Acquisition from the host, refer to the command format table below.

gtxversion␣O␣0000␣00␣NC␣↲

Table 4-202 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxversion		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxversion␣0000␣00␣NC␣1,"001.000.005 "↲

Table 4-203 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxversion		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	TX Version	TX FW Version	char	"	Beginning of character string	
			string	ASCII code	Version	12 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.16.3 TX Device Name Setting

After receiving TX Device Name Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of TX Device Name Setting from the host, refer to the command format table below.

The usable ASCII characters for the setting are those up to 0x20 to 0x7e excluding 0x22 (”).

stxname␣S␣0000␣00␣NC␣1,"TXName"↲

Table 4-204 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxname		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	TX Name	TX Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting(2).

4.16.4 TX Device Name Acquisition

After receiving TX Device Name Acquisition, RU or CHG sends the TX device name to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Device Name Acquisition from the host, refer to the command format table below.

gtxname␣O␣0000␣00␣NC␣1↲

Table 4-205 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxname␣0000␣00␣NC␣1,”TXName ”↲

Table 4-206 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	TX Name	TX Device Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

4.16.5 TX Device Name Notification

TX Device Name Notification is sent when TX Device Name Setting is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD_ntxname␣0000␣00␣NC␣1,”TXName ”

Table 4-207 Command Format

No	item		Description	type	value	value description	remarks
1	Modify		MD	string	MD		
2	Command		Command string	string	ntxname		
3	Model ID/Device ID		Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID		Unit ID	string	00	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
		TX Name	TX Device Name	char	"	Beginning of character string	
				string	ASCII code	Name	16 characters
				char	"	End of character string	
7	End Character		Message end character	binary	0x0d	CR	

4.16.6 TX Location Name Setting

After receiving TX Location Name Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of TX Location Name Setting from the host, refer to the command format table below.

The usable ASCII characters for the setting are those up to 0x20 to 0x7e excluding 0x22 (”).

stxlocationname␣S␣0000␣00␣NC␣1,"Location01"↲

Table 4-208 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxlocationname		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	TX Location Name	TX Location Name	char	"	Beginning of character string	
			string	ASCII code	Name	1 to 16 characters
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.7 TX Location Name Acquisition

After receiving the TX Location Name Acquisition, RU or CHG sends the TX location name to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Location Name Acquisition from the host, refer to the command format table below.

gtxlocationname␣O␣0000␣00␣NC␣1↲

Table 4-209 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxlocationname		

No	item	Description	type	value	value description	remarks
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxlocationname␣0000␣00␣NC␣1,"Location01 "↲

Table 4-210 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxlocationname		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	TX Location Name	TX Location Name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.16.8 TX Location Name Notification

TX Location Name Notification is sent when the location name is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxlocationname␣0000␣00␣NC␣1,"Location01 "↲

Table 4-211 Command Format

No	item		Description	type	value	value description	remarks
1	Modify		MD	string	MD		
2	Command		Command string	string	ntxlocationname		
3	Model ID/Device ID		Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID		Unit ID	string	00	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
		TX Location Name	TX Location Name	char	"	Beginning of character string	
				string	ASCII code	Name	16 characters
				char	"	End of character string	
7	End Character		Message end character	binary	0x0d	CR	

4.16.9 TX Device ID Setting

After receiving TX Device ID Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of TX Device ID Setting from the host, refer to the command format table below.

stxdeviceid␣S␣0000␣00␣NC␣1,1↲

Table 4-212 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxdeviceid		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	Device ID	Device ID	string	0 to 255		
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.10 TX Device ID Acquisition

After receiving TX Device ID Acquisition, RU or CHG sends the TX device ID to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Device ID Acquisition from the host, refer to the command format table below.

gtxdeviceid␣O␣0000␣00␣NC␣1↲

Table 4-213 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxdeviceid		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxdeviceid␣0000␣00␣NC␣1↲

Table 4-214 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxdeviceid		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	TX Device ID	TX Device ID	string	0 to 255		
6	End Character	Message end character	binary	0x0d	CR	

4.16.11 TX Device ID Notification

TX Device ID Notification is sent when the TX device ID is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxdeviceid␣0000␣00␣NC␣1,1↲

Table 4-215 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxdeviceid		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
	TX Device ID	TX Device ID	string	0 to 255		
7	End Character	Message end character	binary	0x0d	CR	

4.16.12 TX Type Acquisition

After receiving TX Type Acquisition, RU or CHG sends the TX type to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Type Acquisition from the host, refer to the command format table below.

gtxkind␣O␣0000␣00␣NC␣1↲

Table 4-216 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxkind		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	

No	item	Description	type	value	value description	remarks
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter			No parameter	
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxkind␣0000␣00␣NC␣1,2↲

Table 4-217 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxkind		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	TX Device Kind	TX Device Type	string	0	HH	
				1	BP	
				2	BD	
				3	DS	
6	End Character	Message end character	binary	0x0d	CR	

4.16.13 TX Gain Setting

After receiving TX Gain Setting, RU or CHG sends the processing results to the host via ACK or NAK.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Set Command

In case of TX Gain Setting from the host, refer to the command format table below.

stxmicgain␣S␣0000␣00␣NC␣1,1↲

Table 4-218 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmicgain		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	MIC Gain	MIC Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.14 TX Gain Acquisition

After receiving TX Gain Acquisition, RU or CHG sends the TX gain to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Gain Acquisition from the host, refer to the command format table below.

gtxmicgain␣O␣0000␣00␣NC␣1↲

Table 4-219 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmicgain		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxmicgain␣0000␣00␣NC␣1↲

Table 4-220 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmicgain		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	MIC Gain	MIC Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	

No	item	Description	type	value	value description	remarks
6	End Character	Message end character	binary	0x0d	CR	

4.16.15 TX Gain Notification

TX Gain Notification is sent when the TX Gain is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxmicgain␣0000␣00␣NC␣1,1↲

Table 4-221 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxmicgain		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	MIC Gain	MIC Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	
7	End Character	Message end character	binary	0x0d	CR	

4.16.16 TX Internal Mic Gain Setting

After receiving TX Internal Mic Gain Setting, RU or CHG sends the processing results to the host via ACK or NAK.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command only applies to TX of BP.

(1) Set Command

In case of TX Internal Mic Gain Setting from the host, refer to the command format table below.

stxintmicgain␣S␣0000␣00␣NC␣1,1↲

Table 4-222 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxintmicgain		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Internal MIC Gain	Internal Mic Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.17 TX Internal Mic Gain Acquisition

After receiving TX Internal Mic Gain Acquisition, RU or CHG sends the TX internal MIC gain to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command only applies to TX of BP.

(1) Get Command

In case of TX Internal Mic Gain Acquisition from the host, refer to the command format table below.

gtxintmicgain␣O␣0000␣00␣NC␣1↲

Table 4-223 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxintmicgain		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxintmicgain␣0000␣00␣NC␣1↲

Table 4-224 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxintmicgain		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Internal MIC Gain	Internal Mic Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	
6	End Character	Message end character	binary	0x0d	CR	

4.16.18 TX Internal Mic Gain Notification

TX Internal Mic Gain Notification is sent when the TX internal Mic gain is changed from RU or CHG.

This command only applies to TX of BP.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxintmicgain␣0000␣00␣NC␣1,1↲

Table 4-225 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxintmicgain		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Internal MIC Gain	Internal Mic Gain	string	1 to 11	1: -9 dB to 11: +21 dB (3 dB/Step)	
7	End Character	Message end character	binary	0x0d	CR	

4.16.19 TX Microphone Directivity Setting

After receiving TX Microphone Directivity Setting, CHG sends the processing results to the host via ACK or NAK.

This command is applicable only to TX of BD.

(1) Set Command

In case of TX Microphone Directivity Setting from the host, refer to the command format table below.

stxmicpolar␣S␣0000␣00␣NC␣1,1↲

Table 4-226 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmicpolar		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	MIC Polar	Microphone directivity	string	0	Omni	
				1	Cardioid	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.20 TX Microphone Directivity Acquisition

After receiving TX Microphone Directivity Acquisition, RU or CHG sends the TX directivity to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command is applicable only to TX of BD.

(1) Get Command

In case of TX Microphone Directivity Acquisition from the host, refer to the command format table below.

gtxmicpolar␣O␣0000␣00␣NC␣1↲

Table 4-227 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmicpolar		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxmicpolar␣0000␣00␣NC␣1↲

Table 4-228 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmicpolar		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	MIC Polar	Microphone directivity	string	0	Omni	
				1	Cardioid	
6	End Character	Message end character	binary	0x0d	CR	

4.16.21 TX Microphone Directivity Notification

TX Microphone Directivity NotificationTX Gain Notification is sent when the TX directivity is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

This command is applicable only to TX of BD.

(1) Information

MD␣ntxmicpolar␣0000␣00␣NC␣1,1↲

Table 4-229 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxmicpolar		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	MIC Polar	Microphone directivity	string	0	Omni	
				1	Cardioid	
7	End Character	Message end character	binary	0x0d	CR	

4.16.22 TX Mute Function Setting

After receiving TX Mute Function Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of TX Mute Function Setting from the host, refer to the command format table below.

stxmutedisable␣S␣0000␣00␣NC␣1,1↲

Table 4-230 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmutedisable		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Mute Function	Mute Function	string	0	Enable	
				1	Disable	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.23 TX Mute Function Acquisition

After receiving TX Mute Function Acquisition, RU or CHG sends the TX mute function to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of executing the command from the host, refer to the command format table below.

gtxmutedisable␣O␣0000␣00␣NC␣1↲

Table 4-231 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutedisable		
2	Handshake Select	Sequence execution system	string	O		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxmutedisable␣0000␣00␣NC␣1↲

Table 4-232 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutedisable		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Mute Function	Mute Function	string	0	Enable	
				1	Disable	
6	End Character	Message end character	binary	0x0d	CR	

4.16.24 TX Mute Function Notification

TX Mute Function Notification is sent when the TX mute function is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxmutedisable␣0000␣00␣NC␣1,1↲

Table 4-233 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxmutedisable		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Mute Function	Mute Function	string	0	Enable	
				1	Disable	
7	End Character	Message end character	binary	0x0d	CR	

4.16.25 TX Mute Control Mode Setting

After receiving TX Mute Control Mode Setting, CHG sends the processing results to the host via ACK or NAK.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Set Command

In case of TX Mute Control Mode Setting from the host, refer to the command format table below.

stxmutectrl␣S␣0000␣00␣NC␣1,1↲

Table 4-234 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmutectrl		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Mute Control Mode	TX mute control mode	string	0	Local Mute Mode	
				1	Remote Mute Mode	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.26 TX Mute Control Mode Acquisition

After receiving TX Mute Control Mode Acquisition, RU or CHG sends the TX mute control mode to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Get Command

In case of executing the command from the host, refer to the command format table below.

gtxmutectrl␣O␣0000␣00␣NC␣1↲

Table 4-235 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutectrl		
2	Handshake Select	Sequence execution system	string	O		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxmutectrl␣0000␣00␣NC␣1,1↲

Table 4-236 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutectrl		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Mute Control Mode	Mute Function	string	0	Local Mute Mode	
				1	Remote Mute Mode	
6	End Character	Message end character	binary	0x0d	CR	

4.16.27 TX Mute Control Mode Notification

TX Mute Control Mode Notification is sent when the TX mute control mode is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Information

MD␣ntxmutectrl␣0000␣00␣NC␣1,1↲

Table 4-237 Command Format

No	item		Description	type	value	value description	remarks
1	Modify		MD	string	MD		
2	Command		Command string	string	ntxmutectrl		
3	Model ID/Device ID		Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID		Unit ID	string	00	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
		Mute Control Mode	Mute Function	string	0	Local Mute Mode	
					1	Remote Mute Mode	
7	End Character		Message end character	binary	0x0d	CR	

4.16.28 TX Remote Mute Acquisition

After receiving the TX Remote Mute Acquisition, RU sends the TX remote mute setting to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Get Command

In case of executing the command from the host, refer to the command format table below.

gtxremotemute␣O␣0000␣00␣NC␣1↲

Table 4-238 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxremotemute		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gtxremotemute␣0000␣00␣NC␣1,1↲

Table 4-239 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxremotemute		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	
	Remote Mute	Remote mute status	string	0	TX is not in Remote Mute Mode.	
				1	Unmute	
				2	Mute	
6	End Character	Message end character	binary	0x0d	CR	

4.16.29 TX Remote Mute Notification

TX Remote Mute Notification is sent when the TX mute button whose TX mute control mode is set to Remote Mute Mode is pressed during RU LINK, and the TX remote mute status is changed.

When Notification Mode Setting is 0 (OFF), it is not sent.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Information

MD␣ntxremotemute␣0000␣00␣NC␣1,1↲

Table 4-240 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxremotemute		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	
	Remote Mute	Remote mute status	string	0	TX is not in Remote Mute Mode.	
				1	Unmute	
				2	Mute	
7	End Character	Message end character	binary	0x0d	CR	

4.16.30 TX Mute Mode Setting

After receiving TX Mute Mode Setting, CHG sends the processing results to the host via ACK or NAK.

This command is applicable only to TX of BD and DS.

(1) Set Command

In case of TX Mute Mode Setting, refer to the command format table below.

stxmutemode␣S␣0000␣00␣NC␣1,1↲

Table 4-241 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmutemode		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Mute Mode	Mute Mode	string	0	Toggle	
				1	Push to Talk	
				2	Push to Mute	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.31 TX Mute Mode Acquisition

After receiving the TX Mute Mode Acquisition, RU or CHG sends the TX mute mode to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command is applicable only to TX of BD and DS.

(1) Get Command

In case of executing TX Mute Mode Acquisition from the host, refer to the command format table below.

gtxmutemode␣O␣0000␣00␣NC␣1↲

Table 4-242 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutemode		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxmutemode␣0000␣00␣NC␣1,2↲

Table 4-243 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutemode		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch number / Charging port number	string	1~8	CH Number in which RU and TX are linked/	

No	item		Description	type	value	value description	remarks
						Charger port where TX is installed	
		Mute Mode	Mute Mode	string	0	Toggle	
					1	Push to Talk	
					2	Push to Mute	
6	End Character		Message end character	binary	0x0d	CR	

4.16.32 TX Mute Mode Notification

TX Mute Mode Notification is sent when TX Mute Mode Setting is changed from CHG.

This command is applicable only to TX of BD and DS.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxmutemode␣0000␣00␣NC␣1,1↲

Table 4-244 Command Format

No	item		Description	type	value	value description	remarks
1	Modify		MD	string	MD		
2	Command		Command string	string	ntxmutemode		
3	Model ID/Device ID		Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID		Unit ID	string	00	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
		Mute Mode	Mute Mode	string	0	Toggle	
					1	Push to Talk	

No	item	Description	type	value	value description	remarks
				2	Push to Mute	
7	End Character	Message end character	binary	0x0d	CR	

4.16.33 TX Default Mute Setting

After receiving TX Default Mute Setting, CHG sends the processing results to the host via ACK or NAK.

This command is applicable only to TX of BD and DS.

(1) Set Command

In case of TX Default Mute Setting from the host, refer to the command format table below.

stxmutedefault␣S␣0000␣00␣NC␣1,1↲

Table 4-245 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxmutedefault		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Default Mute Mode	Default Mute Mode	string	0	Default Unmute	
				1	Default Mute	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.34 TX Default Mute Acquisition

After receiving the TX Default Mute Acquisition, RU or CHG sends the TX default mute to the host via Answer.

This command is applicable only to TX of BD and DS.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Get Command

In case of TX Default Mute Acquisition from the host, refer to the command format table below.

gtxmutedefault␣O␣0000␣00␣NC␣↲

Table 4-246 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutedefault		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxmutedefault␣0000␣00␣NC␣1,2↲

Table 4-247 Answer Command Format

No	item		Description	type	value	value description	remarks
1	Command		Command string	string	gtxmutedefault		
2	Model ID/Device ID		Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID		Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select		Divided message system	string	NC	No divided message	
5	Parameter		Parameter				
		RU Ch No. / Charging Port No.	RU Ch number / Charging port number	string	1~8	CH Number in which RU and TX are linked/ Charger port where TX is installed	
		Default Mute Mode	Default Mute Mode	string	0	Default Unmute	
					1	Default Mute	
6	End Character		Message end character	binary	0x0d	CR	

4.16.35 TX Default Mute Notification

TX Default Mute Notification is sent when TX Default Mute Setting is changed from CHG.

This command is applicable only to TX of BD and DS.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxdefaultmute␣0000␣00␣NC␣1,1↲

Table 4-248 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxdefaultmute		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	

No	item		Description	type	value	value description	remarks
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
		Default Mute Mode	Default Mute Mode	string	0	Default Unmute	
					1	Default Mute	
7	End Character		Message end character	binary	0x0d	CR	

4.16.36 TX Mute LED Color Setting

After receiving TX Mute LED Color Setting, CHG sends the processing results to the host via ACK or NAK.

This command is applicable only to TX of BD and DS.

(1) Set Command

In case of TX Mute LED Color Setting from the host, refer to the command format table below.

stxmutecolor␣S␣0000␣00␣NC␣1,1↲

Table 4-249 Command Format

No	item		Description	type	value	value description	remarks
1	Command		Command string	string	stxmutecolor		
2	Handshake Select		Sequence execution system	string	S		
3	Model ID/Device ID		Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID		Unit ID	string	00	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
		TX Mute LED Color	TX Mute LED Color	string	0	OFF	

No	item	Description	type	value	value description	remarks
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	
				7	WHITE	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.37 TX Mute LED Color Acquisition

After receiving the TX Mute LED Color Acquisition, CHG sends the TX Mute LED Color to the host via Answer.

This command is applicable only to TX of BD and DS.

(1) Get Command

In case of TX Mute LED Color Acquisition from the host, refer to the command format table below.

gtxmutecolor␣O␣0000␣00␣NC␣1↲

Table 4-250 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutecolor		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	Charging Port No.	Charging port	string	1~8	Charger port where TX is	

No	item	Description	type	value	value description	remarks
		number			installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxmutecolor␣0000␣00␣NC␣1,2↲

Table 4-251 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxmutecolor		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch number / Charging port number	string	1~8	CH Number in which RU and TX are linked/ Charger port where TX is installed	
	TX Mute LED Color	TX Mute LED Color	string	0	OFF	
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	

No	item	Description	type	value	value description	remarks
				7	WHITE	
6	End Character	Message end character	binary	0x0d	CR	

4.16.38 TX Mute LED Color Notification

TX Mute LED Color Notification is sent when TX Mute LED Color Setting is changed from CHG.

This command is applicable only to TX of BD and DS.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxmutecolor␣0000␣00␣NC␣1,1↲

Table 4-252 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxmutecolor		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	TX Mute LED Color	TX Mute LED Color	string	0	OFF	
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	

No	item	Description	type	value	value description	remarks
				7	WHITE	
7	End Character	Message end character	binary	0x0d	CR	

4.16.39 TX Mute Reset LED Color Setting

After receiving TX Mute Reset LED Color Setting, CHG sends the processing results to the host via ACK or NAK.

This command is applicable only to TX of BD and DS.

(1) Set Command

In case of TX Mute Reset LED Color Setting from the host, refer to the command format table below.

stxunmutecolor␣S␣0000␣00␣NC␣1,2↲

Table 4-253 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxunmutecolor		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	TX Mute LED Color	TX Mute LED Color	string	0	OFF	
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	
				7	WHITE	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.40 TX Mute Reset LED Color Acquisition

After receiving the TX Mute Reset LED Color Acquisition, CHG sends the TX mute reset LED to the host via Answer.

This command is applicable only to TX of BD and DS.

(1) Get Command

In case of TX Mute Reset LED Color Acquisition from the host, refer to the command format table below.

gtxunmutecolor␣O␣0000␣00␣NC␣2↲

Table 4-254 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxunmutecolor		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxunmutecolor␣0000␣00␣NC␣1,2↲

Table 4-255 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxunmutecolor		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	TX Unmute LED Color	TX Mute Reset LED Color	string	0	OFF	
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	
				7	WHITE	
6	End Character	Message end character	binary	0x0d	CR	

4.16.41 TX Mute Reset LED Color Notification

TX Mute Reset LED Color Notification is sent when TX Mute Reset LED Color Setting is changed from CHG.

This command is applicable only to TX of BD and DS.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxunmutecolor␣0000␣00␣NC␣1,1↲

Table 4-256 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxunmutecolor		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	TX Unmute LED Color	TX Mute Reset LED Color	string	0	OFF	
				1	RED	
				2	GREEN	
				3	ORANGE	
				4	BLUE	
				5	MAGENTA	
				6	CYAN	
				7	WHITE	
7	End Character	Message end character	binary	0x0d	CR	

4.16.42 TX External Mute Setting

After receiving the TX External Mute Setting, the RU sends the processing results to the host via ACK or NAK.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

When TX is operated in Remote Mute, the mute status of the TX is fixed as unmute, so the mute status of TX cannot be changed by this command. On the other hand, LED of TX is changed according to the sent parameter.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Set Command

In case of TX External Mute Setting from the host, refer to the command format table below.

stxforcedmute␣S␣0000␣00␣NC␣1,2↲

Table 4-257 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxforcedmute		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute	TX external mute control	string	0	OFF	
				1	Forced unmute	
				2	Forced mute	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.43 TX External Mute Acquisition

After receiving the TX External Mute Acquisition, RU sends the TX external mute to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Get Command

In case of TX External Mute Acquisition from the host, refer to the command format table below.

gtxforcedmute␣O␣0000␣00␣NC␣1↲

Table 4-258 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxforcedmute		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gtxforcedmute␣0000␣00␣NC␣1,2↲

Table 4-259 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxforcedmute		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute	TX external mute control	string	0	OFF	

No	item	Description	type	value	value description	remarks
				1	Forced unmute	
				2	Forced mute	
6	End Character	Message end character	binary	0x0d	CR	

4.16.44 TX External Mute Notification

TX External Mute Notification is sent when TX External Mute Setting is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Information

MD␣ntxforcedmute␣0000␣00␣NC␣1,1↲

Table 4-260 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxforcedmute		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute	TX external mute control	string	0	OFF	
				1	Forced unmute	
				2	Forced mute	
7	End Character	Message end character	binary	0x0d	CR	

4.16.45 TX External Mute Collective Setting

After receiving the TX External Mute Collective Setting, the RU sends the processing results to the host via ACK or NAK.

Collectively controls the external mute setting of TX linked to RU at the time of command reception.

When TX is operated in Remote Mute, the mute status of the TX is fixed as unmute, so the mute status of TX cannot be changed by this command. On the other hand, LED of TX is changed according to the sent parameter.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Set Command

In case of TX External Mute Collective Setting from the host, refer to the command format table below.

salltxforcedmute␣S␣0000␣00␣NC␣2↲

Table 4-261 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	salltxforcedmute		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	TX Forcedmute	TX external mute control	string	0	OFF	
				1	Forced unmute	
				2	Forced mute	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.46 TX Battery Level Alert Setting

After receiving TX Battery Level Alert Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of TX Battery Level Alert Setting from the host, refer to the command format table below.

stxbattalert␣S␣0000␣00␣NC␣1,1↲

Table 4-262 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxbattalert		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Battery Alert Time	Battery Alert Time	string	0	0:OFF	
				1	1: From 60 minutes before	
				2	2: From 90 minutes before	
				3	3: From 120 minutes before	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.47 TX Battery Level Alert Acquisition

After receiving the TX Battery Level Alert Acquisition, CHG sends the TX battery level alert to the host via Answer.

(1) Get Command

In case of TX Battery Level Alert Acquisition from the host, refer to the command format table below.

gtxbattalert␣O␣0000␣00␣NC␣2↲

Table 4-263 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxbattalert		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	Charging Port No.	RU Ch Number / Charging port number	string	1~8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gtxbattalert␣0000␣00␣NC␣1,2↲

Table 4-264 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxbattalert		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Battery Alert Time	Battery Alert Time	string	0	0:OFF	
				1	1: From 60 minutes before	

No	item	Description	type	value	value description	remarks
				2	2: From 90 minutes before	
				3	3: From 120 minutes before	
6	End Character	Message end character	binary	0x0d	CR	

4.16.48 Battery Level Alert Notification

Battery Level Alert Notification is sent when TX Battery Level Alert Setting is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣ntxbattalert␣0000␣00␣NC␣1,1↲

Table 4-265 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxbattalert		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8	Charger port where TX is installed	
	Battery Alert Time	Battery Alert Time	string	0	0:OFF	
				1	1: From 60 minutes before	
				2	2: From 90 minutes before	
				3	3: From 120 minutes before	
7	End Character	Message end character	binary	0x0d	CR	

4.16.49 TX LED Lighting Request

After receiving TX LED Lighting Request, RU or CHG sends the processing results to the host via ACK or NAK.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

(1) Request Command

In case of TX LED Lighting Request from the host, refer to the command format table below.

```
rtxledflash␣S␣0000␣00␣NC␣1
```

Table 4-266 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rtxledflash		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No. / Charging Port No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked / Charger port where TX is installed	
	Flash Pattern	Flash pattern	string	0	Undefined, no action	
				1	Identify	
				2	Pattern 2	In the case of BP and HH, the lamp is lit in green for 1 sec and then in red for 1 sec, and this cycle is repeated three times. In the case of BD and DS, the USB, touch section, and goose neck section work together, and the lamp is lit in green for 1 sec, in red for 1 sec, and then in blue for 1 sec, and this cycle is repeated three times.
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.50 TX External Mute LED Setting

After receiving the TX External Mute LED Setting, the RU sends the processing results to the host via ACK or NAK.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

When TX is in Local Mute, LED control by this command takes precedence over LED control by TX external mute setting and TX external mute collective setting.

When TX is in Remote Mute, the priority of the LED control by TX external mute setting and TX external mute collective setting and LED control by this command becomes the same.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Set Command

In case of TX External Mute LED Setting from the host, refer to the command format table below.

stxforcedmuteled␣S␣0000␣00␣NC␣1,2↲

Table 4-267 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	stxforcedmuteled		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute LED	TX external mute LED control	string	0	OFF	
				1	Forced unmute LED	
				2	Forced mute LED	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.51 TX External Mute LED Acquisition

After receiving the TX External Mute LED Acquisition, RU sends the TX external mute LED to the host via Answer.

When RU receives this command, it operates normally only when the Ch specified by the parameter is linked with TX.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Get Command

In case of TX External Mute LED Acquisition from the host, refer to the command format table below.

gtxforcedmuteled␣O␣0000␣00␣NC␣1↲

Table 4-268 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxforcedmuteled		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
	RU Ch No.	RU Ch Number / Charging port number	string	1~8	CH Number in which RU and TX are linked	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU.

gtxforcedmuteled␣0000␣00␣NC␣1,2↲

Table 4-269 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gtxforcedmuteled		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute LED	TX external mute control LED	string	0	OFF	
				1	Forced unmute LED	
				2	Forced mute LED	
6	End Character	Message end character	binary	0x0d	CR	

4.16.52 TX External Mute LED Notification

TX External Mute LED Setting is sent when TX External Mute Setting is changed from RU.

When Notification Mode Setting is 0 (OFF), it is not sent.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Information

MD␣ntxforcedmuteled␣0000␣00␣NC␣1,1↲

Table 4-270 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	ntxforcedmuteled		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	RU Ch No.	RU Ch number	string	1~8	CH Number in which RU and TX are linked	RU Ch No.
	TX Forcedmute LED	TX external mute control LED	string	0	OFF	
				1	Forced unmute LED	
				2	Forced mute LED	
7	End Character	Message end character	binary	0x0d	CR	

4.16.53 TX External Mute LED Collective Setting

After receiving the TX External Mute LED Collective Setting, the RU sends the processing results to the host via ACK or NAK.

Collectively controls the external mute LED setting of TX linked to RU at the time of command reception.

When TX is in Local Mute, LED control by this command takes precedence over LED control by TX external mute setting and TX external mute collective setting.

When TX is in Remote Mute, the priority of the LED control by TX external mute setting and TX external mute collective setting and LED control by this command becomes the same.

This command works normally only when the FW version is 001.001.000 or later. Pay attention to the FW version.

(1) Set Command

In case of TX External Mute LED Collective Setting from the host, refer to the command format table below.

salltxforcedmuteled␣S␣0000␣00␣NC␣2↵

Table 4-271 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	salltxforcedmuteled		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	

No	item	Description	type	value	value description	remarks
6	Parameter	Parameter				
	TX Forcedmute LED	TX external mute control	string	0	OFF	
				1	Forced unmute LED	
				2	Forced mute LED	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.54 TX Reboot Request

After receiving TX Reboot Request, CHG sends the processing results to the host via ACK or NAK.

(1) Request Command

In case of TX Reboot Request from the host, refer to the command format table below.

rtxreboot␣S␣0000␣00␣NC␣1

Table 4-272 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rtxreboot		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.16.55 TX Factory Reset Request

After receiving TX Factory Reset Request, CHG sends the processing results to the host via ACK or NAK.

(1) Request Command

In case of TX Reboot Request from the host, refer to the command format table below.

rtxfactoryreset␣S␣0000␣00␣NC␣1

Table 4-273 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rtxfactoryreset		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1 to 8	Charger port where TX is installed	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.17 CHG

4.17.1 CHG Model Name Acquisition

In case of CHG Model Name Acquisition from the host, refer to the command format table below.

(1) Get Command

gchgmodelname␣O␣0000␣00␣NC␣↲

Table 4-274 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgmodelname		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gchgmodelname␣0000␣00␣NC␣"ESW-CHG5 ",8↲

Table 4-275 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgmodelname		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Model name	Model name	char	"	Beginning of character string	

No	item		Description	type	value	value description	remarks
				string	ASCII	ASCII code	16 characters
				char	"	End of character string	
		Total Charging Port	Total number of charging ports	string	2~8	Total number of charging ports including connected chargers	
6	End Character		Message end character	binary	0x0d	CR	

4.17.2 CHG FW Version Acquisition

In case of CHG FW Version Acquisition from the host, refer to the command format table below.

(1) Get Command

gchgversionarray␣O␣0000␣00␣NC␣↲

Table 4-276 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgversionarray		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gchgversionarray␣0000␣00␣NC␣"001.000.000 ","---.---.--- ","001.000.000 ","

"↲

Table 4-277 Answer Command Format

No	item	Description	type	value	value description	remarks

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgversionarray		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	1st Array CHG Version	1st array (port 1 & 2) charger version	char	"	Beginning of character string	
			string	ASCII	ASCII code	12 characters
			char	"	End of character string	
	2nd Array CHG Version	Second array (port 3 & 4) charger version	string	"	Beginning of character string	
				ASCII	ASCII code	12 characters For arrays that are not connected, “ ” (12 spaces) are acquired. For the second array of CHG5, “---.---.--- ” is acquired.
				"	End of character string	
	3rd Array CHG Version	Third array (port 5 & 6) charger version	string	"	Beginning of character string	
				ASCII	ASCII code	12 characters For arrays that are not connected, “ ” (12 spaces) are acquired. For the second array of CHG5, “---.---.--- ” is acquired.
				"	End of character string	
	4th Array CHG Version	4th array (port 7 & 8) charger version	string	"	Beginning of character string	
				ASCII	ASCII code	12 characters For arrays that are not connected, “ ” (12 spaces) are acquired. For the second array of CHG5, “---.---.--- ” is acquired.

No	item	Description	type	value	value description	remarks
				"	End of character string	
6	End Character	Message end character	binary	0x0d	CR	

4.17.3 CHG Device Linked Information Acquisition

After receiving the CHG Device Linked Information Acquisition, CHG sends the CHG device linked information to the host via Answer.

(1) Get Command

In case of CHG Device Linked Information Acquisition from the host, refer to the command format table below.

gchgdevicearray␣O␣0000␣00␣NC␣↲

Table 4-278 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgdevicearray		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gchgdevicearray␣0000␣00␣NC␣1,2,0,1↲

Table 4-279 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgdevicearray		

No	item	Description	type	value	value description	remarks
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	1st Array CHG Info	First array (port 1 & 2) charger version	string	1	CHG4	
				2	CHG5	
	2nd Array CHG Info	Second array (port 3 & 4) charger version	string	0	No CHG on array or second array in CHG5	
				1	CHG4	
				2	CHG5	
	3rd Array CHG Info	Third array (port 5 & 6) charger information	string	0	No CHG on array or second array in CHG5	
				1	CHG4	
				2	CHG5	
	4th Array CHG Info	Fourth array (port 7 & 8) charger information	string	0	No CHG on array or second array in CHG5	
				1	CHG4	
				2	CHG5	
6	End Character	Message end character	binary	0x0d	CR	

4.17.4 CHG Port Assignment Setting

After receiving CHG Port Assignment Setting, CHG sends the processing results to the host via ACK or NAK.

In case of CHG Port Assignment Setting from the host, refer to the command format table below.

(1) Set Command

schgportch␣S␣0000␣00␣NC␣1,8↲

Table 4-280 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schgportch		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8		
	Charging Port Assign Ch	CH number assigned to charging port	string	0~8	CH number	0: Not assigned
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.17.5 CHG Port Assignment Acquisition

After receiving the CHG Port Assignment Acquisition, CHG sends the CHG port assignment to the host via Answer.

(1) Get Command

In case of CHG Port Assignment Acquisition from the host, refer to the command format table below.

gchgportch␣O␣0000␣00␣NC␣1↲

Table 4-281 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgportch		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8		

No	item	Description	type	value	value description	remarks
6	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gchgportch␣0000␣00␣NC␣1,1↲

Table 4-282 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchgportch		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8		
	Charging Port Assign Ch	CH number assigned to charging port	string	0~8	CH number	0: Not assigned
6	End Character	Message end character	binary	0x0d	CR	

4.17.6 CHG Port Assignment Notification

CHG Port Assignment Notification is sent when the CHG port assignment is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchgportch␣0000␣00␣NC␣0↲

Table 4-283 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchgportch		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Charging Port No.	Charging port number	string	1~8		
	Charging Port Assign Ch	CH number assigned to charging port	string	0~8	CH number	0: Not assigned
7	End Character	Message end character	binary	0x0d	CR	

4.17.7 CHG Link Button Lock Setting

After receiving CHG Link Button Lock Setting, CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of CHG Link Button Lock Setting from the host, refer to the command format table below.

schglinkbtnlock␣S␣0000␣00␣NC␣1↲

Table 4-284 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	schglinkbtnlock		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	LINK Button Lock Mode	LINK Button Lock Mode	string	0	Always Unlock	
				1	Press and hold for 2 seconds to unlock.	
				2	Always Lock	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.17.8 CHG Link Button Lock Acquisition

After receiving the CHG Link Button Lock Acquisition, CHG sends the CHG link button lock to the host via Answer.

(1) Get Command

In case of CHG Link Button Lock Acquisition from the host, refer to the command format table below.

gchglinkbtnlock␣O␣0000␣00␣NC␣↲

Table 4-285 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchglinkbtnlock		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from CHG.

gchglinkbtnlock␣0000␣00␣NC␣1↲

Table 4-286 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gchglinkbtnlock		
2	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	

No	item	Description	type	value	value description	remarks
3	Unit ID	Unit ID	string	00	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	LINK Button Lock Mode	LINK Button Lock Mode	string	0	Always Unlock	
				1	Press and hold for 2 seconds to unlock.	
				2	Always Lock	
6	End Character	Message end character	binary	0x0d	CR	

4.17.9 CHG Link Button Lock Notification

CHG Link Button Lock Notification is sent when CHG Link Button Lock Setting is changed from CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nchglinkbtnlock␣0000␣00␣NC␣0↲

Table 4-287 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nchglinkbtnlock		
3	Model ID/Device ID	Model ID/Device ID	string	0000	See 2.2.2.	
4	Unit ID	Unit ID	string	00	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	LINK Button Lock Mode	LINK Button Lock Mode	string	0	Always Unlock	
				1	Press and hold for 2 seconds to unlock.	
				2	Always Lock	
7	End Character	Message end character	binary	0x0d	CR	

4.18 Other

4.18.1 LED Setting

After receiving LED Setting, RU or CHG sends the processing results to the host via ACK or NAK.

(1) Set Command

In case of LED Setting from the host, refer to the command format table below.

sledoff␣S␣0000␣00␣NC␣1↲

Table 4-288 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	sledoff		
2	Handshake Select	Sequence execution system	string	S		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	LED Off Mode	LED Setting	string	0	LED is turned ON.	
				1	LED is not turned ON.	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.18.2 LED Acquisition

After receiving LED Acquisition, RU or CHG sends the LED setting to the host via Answer.

(1) Get Command

In case of LED Acquisition from the host, refer to the command format table below.

gledoff␣O␣0000␣00␣NC␣↲

Table 4-289 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gledoff		
2	Handshake Select	Sequence execution system	string	O		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter	string		No parameter	
7	End Character	Message end character	binary	0x0d	CR	

(2) Answer

Refer to the table below for Answer Command format from RU or CHG.

gledoff␣0000␣00␣NC␣1↲

Table 4-290 Answer Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	gledoff		
2	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
3	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
4	Continue Select	Divided message system	string	NC	No divided message	
5	Parameter	Parameter				
	LED Off Mode	LED Setting	string	0	LED is turned ON.	
				1	LED is not turned ON.	
6	End Character	Message end character	binary	0x0d	CR	

4.18.3 LED Notification

LED Notification is sent when LED Setting is changed from RU or CHG.

When Notification Mode Setting is 0 (OFF), it is not sent.

(1) Information

MD␣nledoff␣0000␣00␣NC␣0↲

Table 4-291 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nledoff		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	LED Off Mode	LED Setting	string	0	LED is turned ON.	
				1	LED is not turned ON.	
7	End Character	Message end character	binary	0x0d	CR	

4.18.4 Walktest Request

After receiving a Walktest Request, the RU sends the processing results to the host via ACK or NAK.

(1) Request Command

In case of a Walktest Request from the host, refer to the command format table below.

rwalktest␣S␣0000␣00␣NC␣1

Table 4-292 Command Format

No	item	Description	type	value	value description	remarks
1	Command	Command string	string	rwalktest		
2	Handshake Select	Sequence execution system	string	S		

No	item	Description	type	value	value description	remarks
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Walktest Mode	Walktest Mode	string	0	Normal operation	
				1	Walktest operation	
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.18.5 Walktest Notification

Walktest notification is periodically sent from RU during Walktest operation. Level All Notification stops at this time.

The Walktest notification is not affected by the noticemode and noticelevel settings.

(1) Information

MD␣nwalktest␣0000␣00␣NC␣-30,-30,0,0,0,0,0,0

Table 4-293 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nwalktest		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Receiving strength of Ch1	RSSI of Ch1	string	Depending on the measurement results.	dBm	
	Receiving strength of Ch2	RSSI of Ch2	string	Depending on the measurement results.	dBm	
	Receiving strength of Ch3	RSSI of Ch3	string	Depending on the measurement results.	dBm	
	Receiving strength of Ch4	RSSI of Ch4	string	Depending on	dBm	

No	item		Description	type	value	value description	remarks
					the measurement results.		
		Receiving strength of Ch5	RSSI of Ch5	string	Depending on the measurement results.	dBm	
		Receiving strength of Ch6	RSSI of Ch6	string	Depending on the measurement results.	dBm	
		Receiving strength of Ch7	RSSI of Ch7	string	Depending on the measurement results.	dBm	
		Receiving strength of Ch8	RSSI of Ch8	string	Depending on the measurement results.	dBm	
7	End Character		Message end character	binary	0x0d	CR	

4.18.6 Request DECT RF Scan

After receiving the Request DECT RF Scan, the RU sends the processing results to the host via ACK or NAK.

(1) Request Command

In case of a DECT RF Scan Request from the host, refer to the command format table below.

rsitesurvey␣S␣0000␣00␣NC␣1,-62

Table 4-294 Command Format

No	item		Description	type	value	value description	remarks
1	Command		Command string	string	rsitesurvey		
2	Handshake Select		Sequence execution system	string	S		
3	Model ID/Device ID		Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID		Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select		Divided message system	string	NC	No divided message	
6	Parameter		Parameter				
		Site Survey Mode	RF Scan Modes	string	0	Normal operation	
					1	DECT RF scan operation	
		Threshold of Used	Threshold of Used	string	0, -82 ~ -62	Threshold of Used	See Chapter 4.18.7.

No	item	Description	type	value	value description	remarks
7	End Character	Message end character	binary	0x0d	CR	

(2) ACK/NAK

See Device Name Setting (2).

4.18.7 DECT RF Scan Notification

DECT RF Scan Notificationis periodically sent from RU during DECT RF scan operation. Level All Notification stops at this time.

The DECT RF scan notification is not affected by the noticemode and noticelevel settings.

(1) Information

MD␣nsitesurvey␣0000␣00␣NC␣10,0,141,91,8

Table 4-295 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	nsitesurvey		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Number of carriers used	Number of carriers used	string	0 ~ 10		Number of carriers available in the scanned DECT band
	Free	Free	string	0 ~ 240		Number of channels that satisfies (RSSI < -82dBm)
	Used1	Used1	string	0 ~ 240		Number of channels that satisfies (-82dBm < Threshold of Used)
	Used2	Used2	string	0 ~ 240		Number of channels that satisfies (Threshold of Used < -62dBm)

No	item	Description	type	value	value description	remarks
	Busy	Busy	string	0 ~ 240		Number of channels that satisfies (RSSI > -62dBm)
7	End Character	Message end character	binary	0x0d	CR	

4.19 Application Log

4.19.1 Application Log Notification

Application Log Notification sends logs for external apps via UDP from RU or CHG. Occurred events and messages are equivalent to system logs.

This command is sent without affected by any notification settings.

(1) Information

MD␣napplog␣0000␣00␣NC␣"ESW-R4180DAN　",0,0,"Ch1 muted"↲

Table 4-296 Command Format

No	item	Description	type	value	value description	remarks
1	Modify	MD	string	MD		
2	Command	Command string	string	napplog		
3	Model ID/Device ID	Model ID/Device ID	string	0000~FFFF	See 2.2.2.	
4	Unit ID	Unit ID	string	00~FF	See 2.2.2.	
5	Continue Select	Divided message system	string	NC	No divided message	
6	Parameter	Parameter				
	Model name	Model name	char	"	Beginning of character string	
			string	ASCII code	Name	16 characters
			char	"	End of character string	
	Log Level	Log Level	string	0	INFO	
				1	NOTICE	
				2	FATAL	
	DEVICE ID	Device ID	string	0 ~ 255	Device ID	

No	item	Description	type	value	value description	remarks
	Message	Log text	char	"	Beginning of character string	
			string	ASCII code	Log text	
			char	"	End of character string	
7	End Character	Message end character	binary	0x0d	CR	

株式会社オーディオテクニカ
〒194-8666　東京都町田市西成瀬2-46-1
www.audio-technica.co.jp

Audio-Technica Corporation
2-46-1 Nishi-naruse, Machida, Tokyo 194-8666, Japan
www.audio-technica.com

Global Support Contact: www.at-globalsupport.com

ver.1 2023.02.01
ver.2 2023.08.01