



**800D Series Mixer Amplifier
LOG DATA REFERENCE SHEET
(INTERNAL USE ONLY)**

1. Summary

The document is reference purpose for 800D of log data contents which consists of Code # and Opt #.

2. Simplified chart for log data

All of log data indicates contents as below. Log data indicates as follows and it can refer each content with Code # and Opt #.

Example:

0456 03 3C 2021-03-18T 11:16:18+09:00 00:00:01.500 Chime volume adjustment -60 dB
 No. Code Opt Date Time Content

Please refer below chart for your reference.

Chart of Code and Opt

OPERATIONS				
Code	Opt	Description (Code)	Description (opt)	Remark
00	-	Energized	Main power ON	Start unit working
01	Bit 0-6	CPU input port operation	-	For developer usage
02	00 ~60 (DEC), FF(-∞)	Ducker depth adjustment	Attenuation (dB: negative sign omitted)	02 40 = adjusting amount of Ducker depth is -40 dB
03	00 ~60 (DEC), FF(-∞)	Chime volume adjustment	Attenuation (dB: negative sign omitted)	03 20 = adjusting amount of Chime volume is -20 dB
04	00 ~60 (DEC), FF(-∞)	Master volume adjustment	Attenuation (dB: negative sign omitted)	04 10 = adjusting amount of Master volume is -10 dB
05	00 ~60 (DEC), FF(-∞)	Remote master volume adjustment	Attenuation (dB: negative sign omitted)	05 60 = adjusting amount of Remote master volume is -60 dB
0A	00	Initialize network settings	00: fixed	Pressed reset button while press power button and hold. Insert AC cable while press power button and hold.
0C	00 ~FF	HTTP Command reception	Refer "2-1 Command opt" chart	
0F	00	HTTP Command reception (Factory inspection start)	00: fixed	

COMMAND DETAILS				
Code	Opt	Description (Code)	Description (opt)	Remark
33	00 01	Command details (Connection check)	00: False 01: True	
34	00 01	Command details (Power control)	00: OFF 01: ON	
37	00 ~60 (DEC), FF(-∞)	Command details (Software master volume control)	Attenuation (dB: negative sign omitted)	
38	bit 0 bit 1-7	Command details (Switch the mode)	0: Standard Control mode 1: Manual Control mode 0: fixed	
39	bit 0 bit 1 bit 2 bit 3 bit 4 bit 5 bit 6 bit 7	Command details (Muting the audio input)	0: Unmute, 1: Mute For Audio Input 1 For Audio Input 2 For Audio Input 3 For Audio Input 4 For Audio Input 5 For Audio Input 6 For Input Module 1 For Input Module 2	Opt number is necessary to calculate from Hexadecimal to Binary number. 39 05 = 39 00000101 Audio Input 1 and 3 are muting and less of inputs are unmuting.
3A	0 1	Command details (Release mute)	0: False 1: True	
3E	bit 0-1 bit 2-3 bit 4-5 bit 6-7	Command details (Set the parameters of the EQ)	EQ1Type (00 : Not used, 01 : LPF, 10 : HPF, 11 : PEQ) EQ2Type (00 : Not used, 01 : LPF, 10 : HPF, 11 : PEQ) EQ3Type (00 : Not used, 01 : LPF, 10 : HPF, 11 : PEQ) 00: Fixed	Opt number is necessary to calculate from Hexadecimal to Binary number. 3E B4 = 3E 00011110 EQ1: HPF EQ2: PEQ EQ3: LPF
40	bit 0-3 bit 4 bit 5-7	Command details (Set the priority broadcast 1)	Priority (Emergency: 0, Priority 1 to 8, Not priority (normal): 9, Invalid: F). Chime Not used:0, Used:1. 0: Fixed	Opt number is necessary to calculate from Hexadecimal to Binary number. 02 : 00010010 Priority 2 broadcasting with chime.

41	bit 0 bit 1 bit 2 bit 3 bit 4 bit 5 bit 6 bit 7	Command details (Set the priority broadcast 2)	0: Unmute, 1: Mute For Audio Input 1 For Audio Input 2 For Audio Input 3 For Audio Input 4 For Audio Input 5 For Audio Input 6 For Input Module 1 For Input Module 2	Opt number is necessary to calculate from Hexadecimal to Binary number. 92 : 10010010 Audio Input 2, 5 and Module 2 are muted.
44	00: OFF 01: ON	Command details (Set the Network Setting)	Obtain IP address automatically (0: OFF, 1: ON)	
ACTION				
Code	Opt	Description (Code)	Description (opt)	Remark
60	00 01	The power status has been changed	00: Standby 01: ON	
61	-	CPU output port has been changed	-	
62	00 01	Operation mode	00: Normal Mode 01: Factory Inspection Mode	
63	00 01	Mode of Power amplifier module has been changed	00: SPAN Other mode 01: SPAM standby mode	
64	bit 0-3 bit 4 bit 5-7	Priority broadcast has been controlled	Priority (Emergency: 0, Priority 1 to 8, Not priority (normal): 9, Invalid: F). Chime Not used:1, Used:2. 0: Fixed	Opt number is necessary to calculate from Hexadecimal to Binary number. 09 : 00001001 Priority 1 broadcasting without chime.
65	bit 0 bit 1 bit 2 bit 3 bit 4 bit 5 bit 6 bit 7	The audio input has been muted	0: Unmute, 1: Mute For Audio Input 1 For Audio Input 2 For Audio Input 3 For Audio Input 4 For Audio Input 5 For Audio Input 6 For Input Module 1 For Input Module 2	Opt number is necessary to calculate from Hexadecimal to Binary number. 00 : 00000000 All of audio input is unmuted. 09: 00001001 Audio input 1 and 4 are muted.

67	00 ~60 (DEC), FF(-∞)	Total Volume value has been adjusted	Attenuation (dB: negative sign omitted)	67 30 = Total volume amount is -30 dB
68	00 01	The output impedance has been changed	00: Low-z mode 01: Hi-z mode	
69	00 01	Auto Sync	00: WebSocket end 01: WebSocket start	

PROTOCOL RESPONSE

Code	Opt	Description (Code)	Description (opt)	Remark
90	00 ~FF	Protocol response (200)	Refer "2-1 Command opt" chart	Command request is accepted
92	00 ~FF	Protocol response (202)	Refer "2-1 Command opt" chart	Command request is accepted and in progress for processing
94	00 ~FF	Protocol response (400)	Refer "2-1 Command opt" chart	Command message has an error
96	00 ~FF	Protocol response (403)	Refer "2-1 Command opt" chart	Identification is necessary
97	00 ~FF	Protocol response (404)	Refer "2-1 Command opt" chart	No found next processing step.
98	00 ~FF	Protocol response (405)	Refer "2-1 Command opt" chart	Not supporting method
99	00 ~FF	Protocol response (500)	Refer "2-1 Command opt" chart	Internal Server error

ERROR

Code	Opt	Description (Code)	Description (opt)	Remark
E0	bit 0 bit 1 bit 2 bit 3-7	Power amplifier module error	Thermal Protection 0 : Normal, 1 : protection Over Current 0 : Normal, 1 : Protection Status Unmatched 0 : Normal, 1:Unmatched 0: Fixed	Opt number is necessary to calculate from Hexadecimal to Binary number. E0 02 : E0 00000010 Over current has been protected.
E2	00 ~FF	WDT error	Second(s)	If counter will be reset or not record more than 5 seconds,
E5	00	Firmware update failure	00: fixed	
E6	00	History save failure	00: fixed	
E7	00 10 20 30	Setting error has been occurred	00 : Management area 10 : Unit setting 20 : Network setting 30 : Unit Status	

E8	bit 0 bit 1 bit 2 bit 3 bit 4 bit 5 bit 6-7	Priority broadcast setting error	Abnormal status (0 : Normal, 1 : Abnormal) Detect Audio Input 1 (0 : Normal, 1 : Abnormal) Detect Audio Input 2 (0 : Normal, 1 : Abnormal) Detect Module 1 (0 : Normal, 1 : Abnormal) Detect Module 2 (0 : Normal, 1 : Abnormal) Emergency Broadcast (0 : Normal, 1 : Abnormal) 0: Fixed	Opt number is necessary to calculate from Hexadecimal to Binary number E8 20 = E8 00100000 Emergency Broadcast setting has error
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NOTIFICATION

Code	Opt	Description (Code)	Description (opt)	Remark
F0	00 ~FF	Additional time information (High)		This information for clockwise and use internally.
F1	00 ~FF	Additional time information (Low)		This information for clockwise and use internally.
F2	00	Ignore priority broadcast activation	00: Fixed.	While higher priority broadcasting is working, unit receive lower priority activating instruction from contact or audio signal.
F4	1 ~ 31		Date info	MM
F5	0 ~ 23		Time info	HH
F6	-48 ~ 52		Time zone info	It is UTC base and EST: -5:00 : opt amount indicates "-20" (-5×4).

2-1 Command opt

Opt number is necessary to convert from Hexadecimal to Binary number and 2 contents are including. First 3 digits is action and last 5 digits is contents.

Example; Log data indicates Code is 90 and opt is 44. Opt 44 converts to Binary number : 01000100

It divides first 3 digits "010" and less 5 digits "00100". Refer below table to pick up log info,

Code 90 opt 44 is Protocol response (200) PUT Power.

Action	Binary #	API
Last 3 digits	000	GET
	001	POST
	010	PUT
	011	DELETE
	100	HEAD
	101	OPTIONS
	110	TRACE
	111	CONNECT

Contents	Binary #	API
Last 5 digits	00000	Login
	00001	Logout
	00010	Equipment-info
	00011	Connection-check
	00100	Power
	00101	Status
	00110	AGC
	00111	Volume
	01000	Manual
	01001	Mute start
	01010	Mute stop
	01011	Zero start
	01100	Zero stop
	01101	Date time zone
	01110	EQ
	01111	FBS
	10000	Setting
	10001	Input priority
	10010	Bus
	10011	Input priority-edit
10100	Network	

	10101	Firmware
	10110	Log
	10111	Reset
	11000	Soft volume memory
	11001	Default-priority
	11010	Start auto sync
	11011	Auto sync
	11100	Close auto sync
	11101	Flash
	11110	Test
	11111	SPI flash

	01110	EQ
	01111	FBS
	10000	Setting
	10001	Input priority
	10010	Bus
	10011	Input priority-edit
	10100	Network
	10101	Firmware
	10110	Log
	10111	Reset
	11000	Soft volume memory
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	11010	Start auto sync
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	11100	Close auto sync
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	11111	SPI flash