

RS232 Protocol

The protocol is accessed via the rear panel RS232C port at 9600,n,8,1 with no handshaking.

All data consists of ASCII bytes.

All commands end with a \r Carriage Return character, ASCII value 13 decimal.

The basic format for a command is:

1	2	3	4	5	6	7....	
#	Group	,	Command	,	Data	\r	

Command groups

Commands are split into the following groups:

Command group	Description
1	Control commands
2	Setup commands
3	Control replies
4	Setup replies
5	Error messages

Sources		
1	Stream	
2	S/PDIF 2	D3
3	Toslink 2	D4
4	S/PDIF 1	D1
5	Toslink 1	D2
6	AES/EBU	D5
7	USB	USB

Group 1: Control Commands

Volume is a value between 000 and 096 as the -dB level in 1dB steps

Command	Description	Command data	Example	Example Reply
01	Source Select	Source	#1,01,x	#3,01,x
12	Get Volume		#1,12,	#3,12,xxx
13	Goto Volume	volume	#1,13,xxx	#3,12,xxx
14	Power	0 - Standby; 1 - Idle; 2 - On	#1,14,x	#3,14,x
44	Mute		#1,44,	#3,44,
45	UnMute		#1,45,	#3,45,

Group 2: Setup commands

Command	Description	Command Data	Example	Example Reply
01	Software Version		#2,01,	#4,01,x.x
02	DSP Version		#2,02,	#4,02,xx.xx

Group 3: Replies from Control Commands

Command	Description	Reply Data	Example
01	Selected Source	Source	#3,01,x
12	Volume	volume	#3,12,xxx
14	Power	0 - Standby; 1 - Idle; 2 - On	#3,14,x
44	Mute		#3,44,
45	UnMute		#3,45,

Group 4: Replies from Setup Commands

Command	Description	Reply Data	Example
01	Software Version	version number	#4,01,x.x
02	DSP Version	version number	#4,02,xx.xx

Group 5: Error Messages

Command	Description	Example
01	Group unknown	#5,01,
02	Command Number unknown	#5,02,
03	Command Data error	#5,03,
04	Unavailable at this time	#5,04,

Some commands cannot be used while the unit is in standby and will return #5,04,

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