

RSP 976

1 Byte waveform format

Baud Rate	Parity	Valid data bits	Stop bit value	Handshaking	Data type
2400	n	8	1	none	string

1. RSP976 -> PC

Display data

Start	Count	ID	Type	Data					Chk
0xfe	0x12	0x21	0x20	flag1	flag2	flag3	flag4	flag5	xx

flag1:	flag2:	flag3:	flag4:	flag5:
bit7 Dynamic	bit7	bit7 Optical	bit7	bit7
bit6	bit6	bit6 Coaxial	bit6	bit6
bit5	bit5 dts	bit5 1	bit5 Stereo	bit5
bit4	bit4 Dolby Digital	bit4 2	bit4 Tuned	bit4
bit3	bit3 Dolby Pro Logic	bit3 3	bit3 Auto	bit3 Tuner Display
bit2	bit2 Dolby 3 Stereo	bit2 4	bit2 Memory	bit2
bit1	bit1 DSP Mode	bit1	bit1 Preset	bit1
bit0 stby LED	bit0 5.1ch	bit0	bit0 OSD	bit0

B. Character display data

Start	Count	ID	Type	Data			Chk
0xfe	0x0f	0xc0	0x20	chr1	...	chr13	xx

char1~13:
ASCII Characters

2. PC -> RSP976

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc0	0x10	xx	xx

key:	key:	key:
0x02 CD	0x10 Bass down	0x2a 1
0x03 Tuner	0x11 Stereo	0x2b 2
0x04 Tape	0x12 3 Ch Stereo	0x2c 3
0x05 Video1	0x13 Pro Logic	0x2d 4
0x06 Video2	0x14 DSP	0x2e 5
0x07 Video3	0x15 5.1 Ch	0x2f 6
0x08 Video4	0x16 Dynamic	0x30 7
0x09 Video5	0x17 Rec	0x31 8
0x0a Power	0x18 Mute	0x32 9
0x0b Vol up		0x33 0
0x0c Vol down	0x23 Zone	
0x0d Treble up	0x24 Band	0x4a Power Off
0x0e Treble down	0x25 Freq. Direct	0x4b Power On
0x0f Bass up	0x26 Mono	0x4c C
	0x27 Memory	0x4d S
	0x28 Tuning up	0x4e R
	0x29 Tuning down	

RSP 976 RS232 Controller Command List

Table: RSP 976 Waveform format expected:

Baud Rate	Parity	Valid Data Bits	Stop Bit Value	Handshaking	Data Type
2400	N	8	1	None	String

Table: RSP 976 expected format of a request by RS232 controller:

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0xC0	0x10	0xFF	0xFF

Table 1: Type 10 Primary Command List

NOTE: The values in the table below show the exact byte sequence of all requests. The device will expect the bytes only - no spaces, no delimiter, etc. The controlling device may implement its own method to download each command sequence. The numerical values in the first column are Hexadecimal.

RSP 976 HEX	Command	Command Description
FE 03 C0 10 02 D5	CD	Source CD
FE 03 C0 10 03 D6	Tuner	Source Tuner
FE 03 C0 10 04 D7	Tape	Source Tape
FE 03 C0 10 05 D8	Video 1	Source Video 1
FE 03 C0 10 06 D9	Video 2	Source Video 2
FE 03 C0 10 07 DA	Video 3	Source Video 3
FE 03 C0 10 08 DB	Video 4	Source Video 4
FE 03 C0 10 09 DC	Video 5	Source Video 5
FE 03 C0 10 0A DD	Power	Power Toggle
FE 03 C0 10 0B DE	Vol+	Volume Up
FE 03 C0 10 0C DF	Vol-	Volume Down
FE 03 C0 10 0D E0	Treble+	Treble Up
FE 03 C0 10 0E E1	Treble-	Treble Down
FE 03 C0 10 0F E2	Bass+	Bass Up
FE 03 C0 10 10 E3	Bass-	Bass Down
FE 03 C0 10 11 E4	Stereo	DSP Stereo
FE 03 C0 10 12 E5	3 Stereo	DSP Dolby 3 Stereo
FE 03 C0 10 13 E6	Pro Logic	DSP Pro Logic
FE 03 C0 10 14 E7	DSP	DSP Music
FE 03 C0 10 15 E8	5.1	5.1 Channel Input
FE 03 C0 10 16 E9	Dynamic	Dynamic Range
FE 03 C0 10 17 EA	Rec	Record
FE 03 C0 10 18 EB	Mute	Mute
FE 03 C0 10 23 F6	Zone 2 / Main	Zone
FE 03 C0 10 4A 1D	Power Off	Power Off
FE 03 C0 10 4B 1E	Power On	Power On
FE 03 C0 10 4C 1F	C	Center
FE 03 C0 10 4D 20	S	Subwoofer
FE 03 C0 10 4E 21	R	Surround
FE 03 C0 10 7F 52	Null Key	Null Key
FE 03 C0 10 FF D2	Display Refresh	Display Refresh