

## RSX 1055

### 1 Byte waveform format

Baud Rate	Parity	Valid data bits	Stop bit value	Handshaking	Data type
19200	n	8	1	none	string

### 1. RSX1055 -> PC

#### Display data

Start	Count	ID	Type	Data						Chk
0xfe	0x17	0xc3	0x20	char1	...	char13	flag1	...	flag8	xx

char1~13  
ASCII Characters

flag1:	flag2:	flag3:	flag4:
bit7 bit6 char7_dot bit5 char6_dot bit4 char5_dot bit3 char4_dot bit2 char3_dot bit1 char2_dot bit0 char1_dot	bit7 bit6 char8_colon bit5 char13_dot bit4 char12_dot bit3 char11_dot bit2 char10_dot bit1 char9_dot bit0 char8_dot	bit7 Optical bit6 Coaxial bit5 1 bit4 2 bit3 3 bit2 4 bit1 Multi bit0 Tapem	bit7 RBDS bit6 RDS bit5 RT bit4 TP bit3 TA bit2 PTY bit1 St (Tuner) bit0 Tuned

flag5:	flag6:	flag7:	flag8:
bit7 Dolby Digital bit6 Dolby Pro Logic bit5 Dolby Pro Logic II bit4 Dolby 3 Stereo bit3 HDCD bit2 DSP bit1 Dynamic Range bit0 Zone	bit7 Preset bit6 Memory bit5 Auto bit4 OSD bit3 Stby_LED bit2 bit1 Disp Mode0 bit0 Disp Mode1	bit7 MPEG bit6 dts bit5 dts ES bit4 THX bit3 Sur bit2 EX bit1 SBL bit0 SBR	bit7 FL bit6 C bit5 FR bit4 SL bit3 SR bit2 LFE bit1 S bit0 CB

	Normal	FL off
display mode1	0	1
display mode0	0	0

## 2. PC -> RSX1055

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc3	0x10	xx	xx

key:		key:		key:		key:	
0x00	RMC Vol+	0x10	Bass-	0x20	Tune / Preset	0x30	7
0x01	RMC Vol-	0x11	Stereo	0x21	Preset Scan	0x31	8
0x02	CD	0x12	3 Stereo	0x22	Surround+	0x32	9
0x03	Tuner	0x13	Pro Logic	0x23	Zone 2/Main	0x33	0
0x04	Tape	0x14	DSP	0x24	Band	0x34	
0x05	Video1	0x15	5.1CH[Multi Input]	0x25	Freq. Direct	0x35	
0x06	Video2	0x16	Dynamic	0x26	Mono	0x36	
0x07	Video3	0x17	Rec	0x27	Memory / Enter	0x37	
0x08	Video4	0x18	OSD Menu	0x28	Tuning+	0x38	
0x09	Video5	0x19	OSD Enter	0x29	Tuning-	0x39	
0x0a	Power	0x1a	OSD Right(+)	0x2a	1	0x3a	
0x0b	Vol+	0x1b	OSD Left(-)	0x2b	2	0x3b	
0x0c	Vol-	0x1c	OSD Up/Trim Sel	0x2c	3	0x3c	
0x0d	Treble+	0x1d	OSD Down/Dynamic	0x2d	4	0x3d	
0x0e	Treble-	0x1e	Mute	0x2e	5	0x3e	
0x0f	Bass+	0x1f	Digital In Select	0x2f	6	0x3f	

key:		key:		key:		key:	
0x40		0x50		0x60	Neo:6 Music	0x7f	NULL Key
0x41		0x51		0x61	Neo:6 Cinema	0xff	DisplayRefresh
0x42		0x52	FL On/Off	0x62	PLII Music Panorama on/off toggle		
0x43		0x53	PLII / 3 Stereo	0x63	PLII Music Dimension_up [0~6]		
0x44	Display	0x54	dts Neo:6	0x64	PLII Music Dimension_down [0~6]		
0x45	PTY	0x55	FM	0x65	PLII Music CenterWidth_up [0~7]		
0x46	TP	0x56	AM	0x66	PLII Music CenterWidth_down [0~7]		
0x47	TA	0x57	Music 1	0x67	SHIFT[treble,bass]		
0x48		0x58	Music 2	0x68	DDEX on/off		
0x49		0x59	Music 3	0x69	Tuning select		
0x4a	Power Off	0x5a	Music 4	0x6a	Preset select		
0x4b	Power On	0x5b	5 Ch Stereo	0x6b			
0x4c	C	0x5c	7 Ch Stereo	0x6c			
0x4d	S	0x5d	PLII Cinema	0x6d			
0x4e	R	0x5e	PLII Music	0x6e			
0x4f	Filter (EQ)	0x5f	PLII Emulation	0x6f			

## RSX 1055 RS232 Controller Command List

**Table: RSX 1055 Waveform format expected:**

Baud Rate	Parity	Valid Data Bits	Stop Bit Value	Handshaking	Data Type
19200	N	8	1	None	String

**Table: RSX 1055 expected format of a request by RS232 controller:**

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0xC3	0x10	0xXX	0xXX

### **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.

RSX 1055 HEX	Command	Command Description
FE 03 C3 10 00 D6	RMC Vol+	Remote Volume Up
FE 03 C3 10 01 D7	RMC Vol-	Remote Volume Down
FE 03 C3 10 02 D8	CD	Source CD
FE 03 C3 10 03 D9	Tuner	Source Tuner
FE 03 C3 10 04 DA	Tape	Source Tape
FE 03 C3 10 05 DB	Video 1	Source Video 1
FE 03 C3 10 06 DC	Video 2	Source Video 2
FE 03 C3 10 07 DD	Video 3	Source Video 3
FE 03 C3 10 08 DE	Video 4	Source Video 4
FE 03 C3 10 09 DF	Video 5	Source Video 5
FE 03 C3 10 0A E0	Power	Power Toggle
FE 03 C3 10 0B E1	Vol+	Volume Up
FE 03 C3 10 0C E2	Vol-	Volume Down
FE 03 C3 10 0D E3	Treble+	Treble Up
FE 03 C3 10 0E E4	Treble-	Treble Down
FE 03 C3 10 0F E5	Bass+	Bass Up
FE 03 C3 10 10 E6	Bass-	Bass Down
FE 03 C3 10 11 E7	Stereo	DSP Stereo
FE 03 C3 10 12 E8	3 Stereo	DSP Dolby 3 Stereo
FE 03 C3 10 13 E9	Pro Logic	DSP Pro Logic
FE 03 C3 10 14 EA	DSP	DSP Music
FE 03 C3 10 15 EB	Multi	Multi Input
FE 03 C3 10 16 EC	Dynamic	Dynamic Range
FE 03 C3 10 17 ED	Rec	Record
FE 03 C3 10 18 EE	OSD Menu	OSD Menu
FE 03 C3 10 19 EF	OSD Enter	OSD Enter
FE 03 C3 10 1A F0	OSD Right (+)	OSD Right
FE 03 C3 10 1B F1	OSD Left (-)	OSD Left
FE 03 C3 10 1C F2	OSD Up	OSD Up

<b>RSX 1055 HEX</b>	<b>Command</b>	<b>Command Description</b>
FE 03 C3 10 1D F3	OSD Down / Dynamic	OSD Down / Dynamic
FE 03 C3 10 1E F4	Mute	Mute
FE 03 C3 10 1F F5	Digital In Select	Digital Input Select
FE 03 C3 10 20 F6	Tune / Preset	Tune / Preset Toggle
FE 03 C3 10 21 F7	Preset Scan	Preset Scan
FE 03 C3 10 22 F8	Surround+	Next Surround Mode
FE 03 C3 10 23 F9	Zone 2 / Main	Zone
FE 03 C3 10 24 FA	Band	Tuner Band
FE 03 C3 10 25 FB	Freq. Direct	Tuner Frequency Direct
FE 03 C3 10 26 FC	FM Mono	Tuner FM Mono
FE 03 C3 10 27 FD	Memory / Enter	Tuner Memory Enter
FE 03 C3 10 28 FE	Tuning+	Tuner Up
FE 03 C3 10 29 FF	Tuning-	Tuner Down
FE 03 C3 10 2A 00	1	1
FE 03 C3 10 2B 01	2	2
FE 03 C3 10 2C 02	3	3
FE 03 C3 10 2D 03	4	4
FE 03 C3 10 2E 04	5	5
FE 03 C3 10 2F 05	6	6
FE 03 C3 10 30 06	7	7
FE 03 C3 10 31 07	8	8
FE 03 C3 10 32 08	9	9
FE 03 C3 10 33 09	0	0
FE 03 C3 10 44 1A	Display	Tuner Display
FE 03 C3 10 45 1B	PTY	RDS PTY
FE 03 C3 10 46 1C	TP	RDS TP
FE 03 C3 10 47 1D	TA	RDS TA
FE 03 C3 10 4A 20	Power Off	Power Off
FE 03 C3 10 4B 21	Power On	Power On
FE 03 C3 10 4C 22	C	Center
FE 03 C3 10 4D 23	S	Subwoofer
FE 03 C3 10 4E 24	R	Surround
FE 03 C3 10 4F 25	Filter (EQ)	Cinema EQ
FE 03 C3 10 52 28	FL On / Off	FL Display Toggle
FE 03 C3 10 53 29	Pro Logic / 3 Stereo	Dolby 3 Stereo
FE 03 C3 10 54 2A	dts Neo:6	dts Neo:6
FE 03 C3 10 55 2B	FM	FM
FE 03 C3 10 56 2C	AM	AM
FE 03 C3 10 57 2D	Music 1	Music 1
FE 03 C3 10 58 2E	Music 2	Music 2
FE 03 C3 10 59 2F	Music 3	Music 3
FE 03 C3 10 5A 30	Music 4	Music 4
FE 03 C3 10 5B 31	5Ch Stereo	5Ch Stereo
FE 03 C3 10 5C 32	7Ch Stereo	7Ch Stereo
FE 03 C3 10 5D 33	PLII Cinema	Dolby PLII Cinema
FE 03 C3 10 5E 34	PLII Music	Dolby PLII Music
FE 03 C3 10 5F 35	Pro Logic	Dolby Pro Logic
FE 03 C3 10 60 36	dts Neo:6 Music	dts Neo:6 Music

<b>RSX 1055 HEX</b>	<b>Command</b>	<b>Command Description</b>
FE 03 C3 10 61 37	dts Neo:6 Cinema	dts Neo:6 Cinema
FE 03 C3 10 62 38	PLII Panorama	PLII Panorama
FE 03 C3 10 63 39	PLII Dimension Up	PLII Dimension Up
FE 03 C3 10 64 3A	PLII Dimension Down	PLII Dimension Down
FE 03 C3 10 65 3B	PLII Center Width Up	PLII Center Width Up
FE 03 C3 10 66 3C	PLII Center Width Down	PLII Center Width Down
FE 03 C3 10 67 3D	Shift (Treble Bass)	Tone Controls
FE 03 C3 10 68 3E	DD EX On/Off	DD EX On/Off
FE 03 C3 10 69 3F	Tuning Select	Discrete Tune Select
FE 03 C3 10 6A 40	Preset Select	Discrete Preset Select
FE 03 C3 10 7F 55	Null Key	Null Key
FE 03 C3 10 FF D5	Display Refresh	Display Refresh

**Table 1A: Commands Sent with exceptions or modifications required**

<b>RSX 1055 HEX</b>	<b>Command Expected</b>	<b>Command</b>
<b>FE 03 C3 10 27 FD</b>	FE 03 C3 10 27 FD 00	Tuner Memory / Enter
<b>FE 03 C3 10 28 FE</b>	FE 03 C3 10 28 FD 01	Tuner Up

The table above list commands with exceptions. To keep the RSX 1055 from encountering the start byte FE in any position other than as the start byte, any occurrence of the bytes FE or FD in the command string must be converted to either FD 00 (for FD) or FD 01 (for FE). This will allow the string to pass while masking any occurrence of the byte FE except as the start byte.