

RSX 1550

1 Byte waveform format

Baud Rate	Parity	Valid data bits	Stop bit value	Handshaking	Data type
115200	n	8	1	none	string

1. RSX1550 -> PC

A. Display Data

Start	Count	ID	Type	Data						Chk
0xfe	0x17	0xc9	0x20	char1	...	char13	flag1	...	flag8	xx

char1~13
ASCII Characters

flag1:		flag2:		flag3:		flag4:		flag5:	
bit7	zone 2	bit7	zone 3	bit7	Optical	bit7	Multi	bit7	II
bit6	char7_dot	bit6	char8_colon	bit6	Coaxial	bit6	RDS	bit6	x
bit5	char6_dot	bit5	char13_dot	bit5	1	bit5	RT	bit5	DTS-HD
bit4	char5_dot	bit4	char12_dot	bit4	2	bit4	TP	bit4	MSTR
bit3	char4_dot	bit3	char11_dot	bit3	3	bit3	TA	bit3	dts
bit2	char3_dot	bit2	char10_dot	bit2	4	bit2	PTY	bit2	ES
bit1	char2_dot	bit1	char9_dot	bit1	HDMI	bit1	Tuned	bit1	Neo:6
bit0	char1_dot	bit0	char8_dot	bit0	ST (Tuner)	bit0	Auto	bit0	96/24

flag6:		flag7:		flag8:	
bit7	Lh	bit7	Zone	bit7	FL
bit6	Preset	bit6	DD TrueHD	bit6	C
bit5	Memory	bit5	Dolby Digital	bit5	FR
bit4	Rh	bit4	+	bit4	SL
bit3	Stby_LED	bit3	EX	bit3	SR
bit2	zone 4	bit2	Dolby PL	bit2	LFE
bit1	Disp Mode1	bit1	SBL	bit1	S
bit0	Disp Mode0	bit0	SBR	bit0	SB

	Normal	FL off
display mode1	0	1
display mode0	0	0

The following RS232 feedback only available after Main Software V1.2.2 installed.

B. 12V Trigger Display Data

Start	Count	ID	Type	Data					Chk
0xfe	0x07	0xc9	0x21	flag1	flag2	flag3	flag4	flag5	xx

Data	0	Off
	1	On

flag1: All Trigger		flag2: Listen Trig		flag3: Z2 Trigger		flag4: Z3 Trigger		flag5: Z4 Trigger	
bit7		bit7		bit7		bit7		bit7	
bit6		bit6		bit6		bit6		bit6	
bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6	bit5	Trigger 6
bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5	bit4	Trigger 5
bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4	bit3	Trigger 4
bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3	bit2	Trigger 3
bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2	bit1	Trigger 2
bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1	bit0	Trigger 1

2. PC -> RSX1550

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x10	xx	xx

key:		key:		key:		key:		key:	
0x00	RMC Vol+	0x10	Contour LF-	0x20	Tune / Preset	0x30	7	0x40	
0x01	RMC Vol-	0x11	Stereo	0x21	Preset Scan	0x31	8	0x41	
0x02	CD	0x12	3 Stereo	0x22	Surround+	0x32	9	0x42	
0x03	Tuner	0x13	Pro Logic	0x23	Zone	0x33	0	0x43	
0x04	Tape	0x14	DSP	0x24	Band	0x34		0x44	RDS Display
0x05	Video1	0x15	5.1CH[Multi Input]	0x25	Freq. Direct	0x35		0x45	PTY
0x06	Video2	0x16	Dynamic	0x26	Mono	0x36		0x46	TP
0x07	Video3	0x17	Rec	0x27	Memory / Enter	0x37		0x47	TA
0x08	Video4	0x18	OSD Menu	0x28	Tuning+	0x38		0x48	
0x09	Video5	0x19	OSD Enter	0x29	Tuning-	0x39		0x49	
0x0a	Power	0x1a	OSD Right(+)	0x2a	1	0x3a		0x4a	Power Off
0x0b	Vol+	0x1b	OSD Left(-)	0x2b	2	0x3b		0x4b	Power On
0x0c	Vol-	0x1c	OSD Up/Trim Sel	0x2c	3	0x3c		0x4c	C
0x0d	Contour HF+	0x1d	OSD Down/Dynamic	0x2d	4	0x3d		0x4d	S
0x0e	Contour HF-	0x1e	Mute	0x2e	5	0x3e		0x4e	R
0x0f	Contour LF+	0x1f	Digital In Select	0x2f	6	0x3f		0x4f	Filter (EQ)

key:		key:		key:		key:	
0x50		0x60	Neo:6 Music	0x70	Preset Down		
0x51		0x61	Neo:6 Cinema	0x71	Power All Zones Off		
0x52	Display On/Off	0x62	PLII Music Panorama on/off toggle	0x72	Frequency Up		
0x53	PLII / 3 Stereo	0x63	PLII Music Dimension_up [0~6]	0x73	Frequency Down		
0x54	dts Neo:6	0x64	PLII Music Dimension_down [0~6]	0x74	PLII Game		
0x55	FM	0x65	PLII Music CenterWidth_up [0~7]	0x75	Output Resolution		
0x56	AM	0x66	PLII Music CenterWidth_down [0~7]	0x76			
0x57	Music 1	0x67	Tone	0x77			
0x58	Music 2	0x68	DD EX / XS on/off	0x78	HDMI Amp Mode		
0x59	Music 3	0x69	Tuning select	0x79	HDMI TV Mode		
0x5a	Music 4	0x6a	Preset select	0x7a			
0x5b	5 Ch Stereo	0x6b	Source	0x7f	NULL key		
0x5c	7 Ch Stereo	0x6c	Mute On	0xff	Display Refresh		
0x5d	PLII Cinema	0x6d	Mute Off				
0x5e	PLII Music	0x6e	Party Mode Toggle				
0x5f		0x6f	Preset Up				
				0x93	Force Factory Default		

* Requires main software V1.2.8 or later

6. PC -> RSX1550 (Direct Select Zone 3)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x17	xx	xx

key:		key:		key:		key:		key:	
0x00	RMC Vol+	0x20	Tune/Preset	0x2a	1	0x4a	Zone Power Off	0x6e	Party Mode
0x01	RMC Vol-	0x21	Preset Scan	0x2b	2	0x4b	Zone Power On	0x6f	Preset Up
0x02	CD	0x22		0x2c	3	0x55	FM	0x70	Preset Down
0x03	Tuner	0x23		0x2d	4	0x56	AM	0x71	All Zones Pwr Off
0x04	Tape	0x24	Band	0x2e	5	0x69	Tune	0x72	Frequency Up
0x05	Video1	0x25		0x2f	6	0x6a	Preset	0x73	Frequency Down
0x06	Video2	0x26	Mono	0x30	7	0x6b	Source	0x74	
0x07	Video3	0x27		0x31	8	0x6c	Mute On	0x75	
0x08	Video4	0x28	Tune+	0x32	9	0x6d	Mute Off	0x76	
0x09	Video5	0x29	Tune-	0x33	0				
0x0a	Zone Power					0x1e	Mute		

7. PC -> RSX1550 (Direct Select Zone 4)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x18	xx	xx

key:		key:		key:		key:		key:	
0x00	RMC Vol+	0x20	Tune/Preset	0x2a	1	0x4a	Zone Power Off	0x6e	Party Mode
0x01	RMC Vol-	0x21	Preset Scan	0x2b	2	0x4b	Zone Power On	0x6f	Preset Up
0x02	CD	0x22		0x2c	3	0x55	FM	0x70	Preset Down
0x03	Tuner	0x23		0x2d	4	0x56	AM	0x71	All Zones Pwr Off
0x04	Tape	0x24	Band	0x2e	5	0x69	Tune	0x72	Frequency Up
0x05	Video1	0x25		0x2f	6	0x6a	Preset	0x73	Frequency Down
0x06	Video2	0x26	Mono	0x30	7	0x6b	Source	0x74	
0x07	Video3	0x27		0x31	8	0x6c	Mute On	0x75	
0x08	Video4	0x28	Tune+	0x32	9	0x6d	Mute Off	0x76	
0x09	Video5	0x29	Tune-	0x33	0				
0x0a	Zone Power					0x1e	Mute		

8. PC -> RSX1550 (Volume Direct)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x30	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x5f	volume 95
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

9. PC -> RSX1550 (Volume Direct Zone 2)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

10. PC -> RSX1550 (Volume Direct Zone 3)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

11. PC -> RSX1550 (Volume Direct Zone 4)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x32	xx	xx

key:		key:	
0x00	volume min	0x10	volume 16
0x01	volume 1		
0x02	volume 2	0x20	volume 32
0x03	volume 3		
0x04	volume 4	0x30	volume 48
0x05	volume 5		
0x06	volume 6	0x40	volume 64
0x07	volume 7		
0x08	volume 8	0x50	volume 80
0x09	volume 9		
0x0a	volume 10	0x59	volume 89
0x0b	volume 11	0x60	volume max
0x0c	volume 12		
0x0d	volume 13		
0x0e	volume 14		
0x0f	volume 15		

The following RS232 commands only available after Main Software V1.2.2 installed.

12. PC -> RSX1550 (12V Trigger Direct)

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0xc9	0x40	xx	xx

key:		key:	
0x00	Listen Trigger 1	0x10	Zone 3 Trigger 5
0x01	Listen Trigger 2	0x11	Zone 3 Trigger 6
0x02	Listen Trigger 3	0x12	Zone 4 Trigger 1
0x03	Listen Trigger 4	0x13	Zone 4 Trigger 2
0x04	Listen Trigger 5	0x14	Zone 4 Trigger 3
0x05	Listen Trigger 6	0x15	Zone 4 Trigger 4
0x06	Zone 2 Trigger 1	0x16	Zone 4 Trigger 5
0x07	Zone 2 Trigger 2	0x17	Zone 4 Trigger 6
0x08	Zone 2 Trigger 3		
0x09	Zone 2 Trigger 4		
0x0a	Zone 2 Trigger 5		
0x0b	Zone 2 Trigger 6		
0x0c	Zone 3 Trigger 1		
0x0d	Zone 3 Trigger 2		
0x0e	Zone 3 Trigger 3		
0x0f	Zone 3 Trigger 4		

