

RT 1080

1 Byte waveform format

Baud Rate	Parity	Valid data bits	Stop bit value	Handshaking	Data type
4800	n	8	1	none	string

1. RT1080 -> PC (ID change method : MEMORY+6 & POWER ON)

ID: xxxyyyzz

Display data

start	count	ID	type	data						chk
0xfe	0x12	0x21	0x20	flag1	...	flag5	char1	...	char11	xx

char1~11:
ASCII Characters

flag1:	flag2:	flag3:	flag4:	flag5:
bit7 Local	bit7 RT	bit7 LW	bit7 lvl3	bit7
bit6 Auto	bit6 EON	bit6 MW	bit6 lvl4	bit6
bit5 Memory	bit5 TP	bit5 FM	bit5 lvl5	bit5
bit4 Preset	bit4 TA	bit4 Ant	bit4 lvl6	bit4
bit3	bit3 AF	bit3 B	bit3 lvl7	bit3
bit2	bit2 Stereo	bit2 A	bit2 lvl8	bit2 lvl0
bit1	bit1 Tuned	bit1 RBDS	bit1 lvl9	bit1 lvl1
bit0	bit0 Narrow	bit0 RDS	bit0 AM	bit0 lvl2

2. PC -> RT1080

start	count	ID	type	key	chk
0xfe	0x03	0x21	0x10	xx	xx

key:	key:	key:
0x00 2	0x10 display	0x26 dimmer
0x01 3	0x11 monostereo	0x27 freqdirect
0x02 4	0x12 af	0xff refresh
0x03 5	0x13 tp	
0x04 7	0x14 pty	
0x05 8	0x15 antatt	
0x06 9	0x16 widenarrow	
0x07 0	0x17 ta	
0x08 auto	0x18 down	
0x09 preset	0x19 up	
0x0a presetscan	0x1a antenna	
0x0b band	0x1b	
0x0c	0x1c	
0x0d memory	0x1d	
0x0e 6	0x1e	
0x0f 1	0x1f	

RT 1080 RS232 Controller Command List

Table: RT 1080 Waveform format expected:

Baud Rate	Parity	Valid Data Bits	Stop Bit Value	Handshaking	Data Type
4800	N	8	1	None	String

Table: RT 1080 expected format of a request by RS 232 controller:

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0x21	0x10	0xXX	0xXX

Table 1: 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.

RT 1080 HEX	Command	Command Description
FE 03 21 10 07 3B	0	0
FE 03 21 10 0F 43	1	1
FE 03 21 10 00 34	2	2
FE 03 21 10 01 35	3	3
FE 03 21 10 02 36	4	4
FE 03 21 10 03 37	5	5
FE 03 21 10 0E 42	6	6
FE 03 21 10 04 38	7	7
FE 03 21 10 05 39	8	8
FE 03 21 10 06 3A	9	9
FE 03 21 10 08 3C	Auto	Auto Tuning
FE 03 21 10 09 3D	Preset	Preset Select
FE 03 21 10 0A 3E	Preset Scan	Preset Scan
FE 03 21 10 0B 3F	Band	Band
FE 03 21 10 0D 41	Memory	Memory
FE 03 21 10 10 44	Display	Display
FE 03 21 10 11 45	Mono	FM Mono
FE 03 21 10 12 46	AF	AF
FE 03 21 10 13 47	TP	TP
FE 03 21 10 14 48	PTY	PTY
FE 03 21 10 15 49	Antenna Att	Antenna Att
FE 03 21 10 16 4A	Wide / Narrow	FM IF Narrow On/Off
FE 03 21 10 17 4B	TA	TA
FE 03 21 10 18 4C	Tune Down	Tune Down
FE 03 21 10 19 4D	Tune Up	Tune Up
FE 03 21 10 1A 4E	Ant A/B	Antenna A/B Toggle
FE 03 21 10 26 5A	Dim	Display Dimmer
FE 03 21 10 27 5B	Frequency Direct	Frequency Direct
FE 03 21 10 FF 33	Refresh	Refresh