

RT 955

1 Byte waveform format

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

1. RT955 -> PC

a. Display data

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

char1~11:
ASCII Characters

flag1:	flag2:	flag3:	flag4:	flag5:
bit7 Local	bit7 RT	bit7 LW	bit7 lv13	bit7 Stby
bit6 Auto	bit6 EON	bit6 MW	bit6 lv14	bit6 lv10
bit5 Memory	bit5 TP	bit5 FM	bit5 lv15	bit5 lv11
bit4 Preset	bit4 TA	bit4 Ant	bit4 lv16	bit4 lv12
bit3	bit3 AF	bit3 B	bit3 lv17	bit3
bit2	bit2 Stereo	bit2 A	bit2 lv18	bit2
bit1	bit1 Tuned	bit1 RBDS	bit1 lv19	bit1
bit0	bit0 Narrow	bit0 RDS	bit0 AM	bit0

b. Radio Text Data

1) Block1

0xfe	n	0x20	0x21	RT1	RT2	...	RTn-2	chk
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2) Block2

0xfe	n	0x20	0x22	RT1	RT2	...	RTn-2	chk
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3) Block3

0xfe	n	0x20	0x23	RT1	RT2	...	RTn-2	chk
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4) Block4

0xfe	n	0x20	0x24	RT1	RT2	...	RTn-2	chk
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5) End of RT

0xfe	0x2	0x20	0x25	chk
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RT1~RTn-2:
ASCII Characters

2. PC -> RT955

start	count	id	type	key	chk
0xfe	0x03	0x20	0x10	xx	xx

key:		key:		key:	
0x00	4	0x10	PTY	0xf0	down
0x01	3	0x11	TA	0xf1	up
0x02	2	0x12	TP	0xff	refresh
0x03	1	0x13			
0x04	9	0x14	antenna att		
0x05	8	0x15	display		
0x06	7	0x16	AF		
0x07	6	0x17	freq. direct		
0x08	pscan	0x18	antenna		
0x09	tune/preset	0x19	fm if narrow		
0x0a	auto	0x1a	mono / stereo		
0x0b	memory	0x1b	stby		
0x0c	band	0x1c			
0x0d	0	0x1d			
0x0e	5	0x1e			
0x0f	label	0x1f			

RT 955 RS232 Controller Command List

Table: RT 955 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 RS232 controller:

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0x20	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 955 HEX	Command	Command Description
FE 03 20 10 0D 40	0	0
FE 03 20 10 03 36	1	1
FE 03 20 10 02 35	2	2
FE 03 20 10 01 34	3	3
FE 03 20 10 00 33	4	4
FE 03 20 10 0E 41	5	5
FE 03 20 10 07 3A	6	6
FE 03 20 10 06 39	7	7
FE 03 20 10 05 38	8	8
FE 03 20 10 04 37	9	9
FE 03 20 10 0A 3D	Auto	Auto Tuning
FE 03 20 10 09 3C	Tune / Preset	Tune / Preset Select
FE 03 20 10 08 3B	Preset Scan	Preset Scan
FE 03 20 10 0C 3F	Band	Band
FE 03 20 10 0B 3E	Memory	Memory
FE 03 20 10 15 48	Display	Display
FE 03 20 10 1A 4D	Mono	FM Mono
FE 03 20 10 16 49	AF	AF
FE 03 20 10 12 45	TP	TP
FE 03 20 10 10 43	PTY	PTY
FE 03 20 10 14 47	Antenna Att	Antenna Att
FE 03 20 10 19 4C	Wide / Narrow	FM IF Narrow On/Off
FE 03 20 10 11 44	TA	TA
FE 03 20 10 F0 23	Tune Down	Tune Down
FE 03 20 10 F1 24	Tune Up	Tune Up
FE 03 20 10 17 4A	Frequency Direct	Frequency Direct
FE 03 20 10 0F 3D	Label	Label
FE 03 20 10 FF 32	Refresh	Refresh