

RA 1070 / RC 1090

1 Byte waveform format

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

1. RC1090 / RA1070 -> PC

Display data

Start	Count	ID	Type	Data0 - Data10 (11 byte)	Chk
0xfe	xx	0x04	0x20	display data (ascii characters)	xx

2. PC -> RC1090 / RA1070

Start	Count	ID	Type	Key	Chk
0xfe	0x03	0x04	0x10	xx	xx

key:

0x00	Power On/Off Toggle
0x01	Power Off
0x02	Power On
0x03	Listen Phono
0x04	Listen CD
0x05	Listen Tuner
0x06	Listen Video
0x07	Listen Aux1
0x08	Listen Aux2
0x09	Listen Tape1
0x0a	Listen Tape2
0x0b	Record Phono
0x0c	Record CD
0x0d	Record Tuner
0x0e	Record Video
0x0f	Record Aux1

key:

0x10	Record Aux2
0x11	Record Tape1
0x12	Record Tape2
0x13	Volume Up
0x14	Volume Down
0x15	Mute On/Off
0x16	Re-label Character Select OK (rmc 0x1e)
0x17	Re-label Character Search Up (rmc 0x1b)
0x18	Re-label Character Search Down (rmc 0x1c)
0x19	Re-label On/Off (rmc 0x42)
0x1a	Record Function Select (rmc 0x1a)
0x1b	Display Off/On
0x1c	Reserved
0x1d	Reserved
0x1e	Reserved
0x1f	Reserved
0x20	Reserved
0x21	Reserved

RA 1070 / RC 1090 RS232 Controller Command List

Table: RA 1070 Waveform format expected:

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

Table: RA 1070 expected format of a request by RS 232 controller:

Start	Count	Device ID	Type	Key	Checksum
0xFE	0x03	0x04	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.

RA 1070 HEX	Command	Command Description
FE 03 04 10 00 17	Power	Power Toggle
FE 03 04 10 01 18	Power Off	Power Off
FE 03 04 10 02 19	Power On	Power On
FE 03 04 10 03 1A	Phono	Source Phono
FE 03 04 10 04 1B	CD	Source CD
FE 03 04 10 05 1C	Tuner	Source Tuner
FE 03 04 10 06 1D	Video	Source Video
FE 03 04 10 07 1E	Aux 1	Source Aux 1
FE 03 04 10 08 1F	Aux 2	Source Aux 2
FE 03 04 10 09 20	Tape 1	Source Tape 1
FE 03 04 10 0A 21	Tape 2	Source Tape 2
FE 03 04 10 0B 22	Record Phono	Record Phono
FE 03 04 10 0C 23	Record CD	Record CD
FE 03 04 10 0D 24	Record Tuner	Record Tuner
FE 03 04 10 0E 25	Record Video	Record Video
FE 03 04 10 0F 26	Record Aux 1	Record Aux 1
FE 03 04 10 10 27	Record Aux 2	Record Aux 2
FE 03 04 10 11 28	Record Tape 1	Record Tape 1
FE 03 04 10 12 29	Record Tape 2	Record Tape 2
FE 03 04 10 13 2A	Vol+	Volume Up
FE 03 04 10 14 2B	Vol-	Volume Down
FE 03 04 10 15 2C	Mute	Mute On/Off
FE 03 04 10 16 2D	Enter	Character Enter
FE 03 04 10 17 2E	Right (+)	Next Character
FE 03 04 10 18 2F	Left (-)	Previous Character
FE 03 04 10 19 30	Menu	Display Label Change
FE 03 04 10 1A 31	Record	Record Function Select
FE 03 04 10 1B 32	Display	FL Display On/Off