

2011-05-24		Part 1		I22 RS232 Part 1		
IR	Value	Description	Command Sent to Port	Reply From I22 (Verbose = 1)	Remote (IR) (Verbose =1)	FP Buttons (Verbose =1)
Toggle standby	12	Standby on/off toggle	0x02 0x57 0x0F 0x0C 0x10 0x03	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	0x02 0x01 0xYY 0x10 0x03, YY=Standby value
Standby (unique)	1	Only standby	0x02 0x57 0x0F 0x01 0x10 0x03	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	
Operate (unique)	2	Only Operate	0x02 0x57 0x0F 0x02 0x10 0x03	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	0x02 0x01 0xYY 0x10 0x03, YY=Standby value	
Step up	30	input / menu up	0x02 0x57 0x0F 0x1E 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number
Step down	31	input / menu down	0x02 0x57 0x0F 0x1F 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number
Arrow right	8	Menu navigation	0x02 0x57 0x0F 0x08 0x10 0x03	0x02 0x0F 0x00 0x10 0x03	0x02 0x0F 0x00 0x10 0x03	
Menu	0	Menu navigation	0x02 0x57 0x0F 0x00 0x10 0x03	0x02 0x0E 0xYY 0x10 0x03 YY=Menu Value	0x02 0x0E 0xYY 0x10 0x03 YY=Menu Value	
Arrow left	9	Menu navigation	0x02 0x57 0x0F 0x09 0x10 0x03	0x02 0x0F 0x00 0x10 0x03	0x02 0x0F 0x00 0x10 0x03	
Balance	26		0x02 0x57 0x0F 0x1A 0x10 0x03	0x02 0x04 0xYY 0x10 0x03 YY=Balance digit (0x01, 0xFF)	0x02 0x04 0xYY 0x10 0x03 YY=Balance digit	
Mute	49	Mute toggle	0x02 0x57 0x0F 0x31 0x10 0x03	0x02 0x09 0xYY 0x10 0x03 YY=mute value	0x02 0x09 0xYY 0x10 0x03 YY=mute value	
Plus	16	Volume up	0x02 0x57 0x0F 0x10 0x10 0x03	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit
Minus	17	Volume down	0x02 0x57 0x0F 0x11 0x10 0x03	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit
Dim	10	Toggle dim levels	0x02 0x57 0x0F 0x0A 0x10 0x03	0x02 0x0A 0xYY 0x10 0x03, YY=Dim Value	0x02 0x0A 0xYY 0x10 0x03, YY=Dim Value	
Direct input 1	60	Direct input access	0x02 0x57 0x0F 0x3C 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 2	61	Direct input access	0x02 0x57 0x0F 0x3D 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 3	62	Direct input access	0x02 0x57 0x0F 0x3E 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 4	63	Direct input access	0x02 0x57 0x0F 0x3F 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 5	3	Direct input access	0x02 0x57 0x0F 0x03 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 6	4	Direct input access	0x02 0x57 0x0F 0x04 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Direct input 7	6	Direct input access	0x02 0x57 0x0F 0x06 0x10 0x03	0x02 0x02 0xYY 0x10 0x03 YY=Input number	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
				Tested on software version: V1.1B6		

2011-05-18						
I22 RS 232 Part 2						
			Transmitting a 0x00 value when verbose is on(1) will reply the current value.			
Function	Variable	Values	Command Sent to Port	Action	Reply From I22 (Verbose =1)	ASCII Decoded Reply
Operate/Standby	1	- (Toggle operate/standby)	0x02 0x57 0x01 0x00 0x10 0x03	Standby Toggle	0x02 0x01 0xYY 0x10 0x03 YY=0x00 or 0x01	
Operate/Standby	1+128	0=Standby (default), 1=Operate,	0x02 0x57 0x81 0xYY 0x10 0x03, YY= 0x00 or 0x01	0x00 = standby , 0x01 = Operate	0x02 0x01 0xYY 0x10 0x03 YY=0x00 or 0xx01	
Main input	2	-1 (0xff) = Previous input, 1 = next input	0x02 0x57 0x02 0xYY 0x10 0x03 YY=0xFF or 0x01	input up / down	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Main input (direct)	2+128	1-7	0x02 0x57 0x82 0xYY 0x10 0x03 YY= 0x01 to 0x07	input direct	0x02 0x02 0xYY 0x10 0x03 YY=Input number	
Volume control	3	Rel value to change with -1 (0xff)=Decrease by 1, 1=increase by one	0x02 0x57 0x03 0xYY 0x10 0x03 YY=0xFF or 0x01	Vol+, Vol-	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	
Volume control	3+128	0-79 (10=default)	0x02 0x57 0x83 0xYY 0x10 0x03 YY=0x00 to 0x4F	Volume direct	0x02 0x03 0xYY 0x10 0x03 YY=Volume digit	
Balance	4	-1 (0xff) = 1 step left, 1 = 1 step right -2 (0xfe) = 2 step left, 2 = 2 step right a.s.o.	0x02 0x57 0x04 0xYY 0x10 0x03 YY= See Row C	Balance step	0x02 0x04 0xYY 0x10 0x03 YY=Balance digit	
Balance	4+128	-9 - 9	0x02 0x57 0x84 0xYY 0x10 0x03 YY= See Row C	Balance direct	0x02 0x04 0xYY 0x10 0x03 YY=Balance digit	
Mute on/off	9	- (Toggle)	0x02 0x57 0x09 0x00 0x10 0x03	Mute toggle	0x02 0x09 0xYY 0x10 0x03 YY=Mute 0/1	
Mute on/off	9+128	1=Mute active, 0=mute inactive (default)	0x02 0x57 0x89 0xYY 0x10 0x03 Y= 0x00, 0x01	Mute direct	0x02 0x09 0xYY 0x10 0x03 YY=Mute 0/1	
Dim	10	- (Step Display Brightness)	0x02 0x57 0x0A 0x00 0x10 0x03	Dim Toggle	0x02 0x0A 0xYY 0x10 0x03, YY=Dim Value	
Dim	10+128	0=Display Off, 1=Level 1, 2=Level 2, 3=Level 3.	0x02 0x57 0x8A 0xYY 0x10 0x03, YY= DIM Value	Dim according to yy	0x02 0x0A 0xYY 0x10 0x03, YY=Dim Value	
Verbose	13	Verbose toggle	0x02 0x57 0x0D 0x00 0x10 0x03	Verbose Toggle	0x02 0x0D 0xYY 0x10 0x03, YY=Verbose value	
Verbose (direct)	13+128	1 = Verbose on, 0= verbose off (default)	0x02 0x57 0x8d 0xYY 0x10 0x03, YY= 0x00, 0x01	Verbose on/off	0x02 0x0D 0xYY 0x10 0x03, YY=Verbose value	
Menu	14	- Menu enter/menu back	0x02 0x57 0x0E 0x01 0x10 0x03	Menu in/out	0x02 0x0E 0xYY 0x10 0x03 YY= 0x00, 0x02	
Menu (direct)	14+128	0 = Exit menu (default), 1= Enter menu	0x02 0x57 0x8E 0xYY 0x10 0x03 YY= 0x00, 0x01	Menu Direct	0x02 0x0E 0xYY 0x10 0x03 YY= 0x00, 0x01	
Remote command	15	Value from table 1, Every "remote command" is handled as a new key press.	Se first part of document			
IR input select	18	- (Toggle front/back)	0x02 0x57 0x12 0x00 0x10 0x03	IR input Toggle	0x02 0x12 0xYY 0x10 0x03, YY=IR input (0=Front)	
IR input select	18+128	0 = front ir input (default), other = back ir input	0x02 0x57 0x92 0xYY 0x10 0x03m YY= 0x00, 0x01	IR input back or Front	0x02 0x12 0xYY 0x10 0x03, YY=IR input (0=Front)	
Recall factory settings	19	- recall factory settings	0x02 0x57 0x13 0x00 0x10 0x03	Recall factory	No reply, Verbose will go off (default)	
Name of productline	21 / 21+128	- read manufacturers name (text)	0x02 0x52 0x15 0x00 0x10 0x03	See Reply (Row F)	0x02 0x15 0x50 0x52 0x49 0x4D 0x41 0x52 0x45 0x10 0x03	PRIMARE
Name of model	22 / 22+128	- read modelname (text)	0x02 0x52 0x16 0x00 0x10 0x03	See Reply (Row F)	0x02 0x16 0x49 0x32 0x32 0x10 0x03	I22
Version	23 / 23+128	- read software version of model (text)	0x02 0x52 0x17 0x00 0x10 0x03	See Reply (Row F)	0x02 0x17 0x56 0x31 0x2E 0x31 0x62 0x36 0x20 0x4D 0x61 0x79 0x20 0x32 0x34 0x20 0x32 0x30 0x31 0x31 0x10 0x03	V1.1b6 May 24 2011
Input name	20	- read current inputs name (text)	0x02 0x52 0x14 0x00 0x10 0x03	See Reply (Row F)	0x02 0x14 0xYY 0x10 0x03, YY= ASCII input name	
Input name	20+128	1-7 – read specified inputs name (text).	0x02 0x52 0x94 0xYY 0x10 0x03, YY=0x00 to 0x0E	See Reply (Row F)	0x02 0x94 0xYY 0x10 0x03, YY= ASCII input name	
			Tested on software version: V1.1B6			

Interface specification

Command

<STX><command><variable>[<value>]<DLE><ETX>

command is W for write (set) and R for read.

Variable is a binary byte

value is optional, and max one byte

If command, variable or value is equal to 16 (DLE), it must be transmitted twice (double DLE).

Reply/Verbose

<STX><variable><value>[<value2>[<value n>]]<DLE><ETX>

If command, variable or value is equal to 16 (DLE), it is transmitted twice (double DLE).

Ascii values

STX = 2 (0x02)

DLE = 16 (0x10)

ETX = 3 (0x03)

Protocol

Use null modem cable

Baud rate: 4800

Bits: 8

Stopp bits: 1

Parity: None