

RS232 COMMANDS FOR WPE 48N CONTROL

The below table shows the pin out of the RS232 connector that incorporate WPE 48N processor

PIN Nº	FUNCTION
PIN 1	NC
PIN 2	NC
PIN 3	NC
PIN 4	RXD
PIN 5	TXD
PIN 6	NC
PIN 7	NC
PIN 8	GND

Below are shown several tables with all the RS232 control commands used in WPE 48N.

Volume control

N	Start byte 0	Start byte 1	Start byte 2	Length	Command	Channel	Value	End byte 2	Function
1	0x01	0x20	0x03	0x08	0x04	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	0x00	0x40	Get the status of the input channel
2	0x01	0x20	0x03	0x0a	0x04	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	Byte1: volume value 0-160. Byte2: phase value: 0 Normal, 1 Inverse. Byte2: Valor Mute 0-OFF, 1-ON	0x40	Input channel status (output from the device)
3	0x01	0x20	0x03	0x08	0x08	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08	0x00	0x40	Get the status of the output channel
4	0x01	0x20	0x03	0x0a	0x08	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	Byte1: volume value 0-160. Byte2: Phase value: 0 Normal, 1 Inverse. Byte2:	0x40	Output channel status (output from the device)

							Mute value 0-OFF, 1-ON		
N	Start byte 0	Start byte 1	Start byte 2	Length	Command	Channel	Value	End byte 2	Function
5	0x01	0x20	0x03	0x08	0x15	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	0x00	0x40	Increase the input volume
6	0x01	0x20	0x03	0x08	0x16	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	0x00	0x40	Reduce the input volume
7	0x01	0x20	0x03	0x08	0x17	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08	0x00	0x40	Increase the output volume
8	0x01	0x20	0x03	0x08	0x18	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08	0x00	0x40	Reduce the output volume
9	0x01	0x20	0x03	0x08	0x03	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	Mute: 0x01 Cancel:0x00	0x40	Change the mute status of output 1
10	0x01	0x20	0x03	0x08	0x07	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08	Mute: 0x01 Cancel:0x00	0x40	Change the mute status of output 2
11	0x01	0x20	0x03	0x08	0x01	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04	Range: 0 - 190	0x40	Change the input volume
12	0x01	0x20	0x03	0x08	0x05	Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08	Range: 0 - 190	0x40	Change de output volume
Baudrate: 9600, n, 1									

System configuration

N	Start byte 0	Start byte 1	Start byte 2	Length	Command	Value	End byte	Function
1	0x01	0x20	0x03	0x17	0x0D	Byte 1-16: Device name (ASCII)	0x40	Type the device name
2	0x01	0x20	0x03	0x08	0x0E	0x00	0x40	Obtain device information
3	0x01	0x20	0x03	0x17	0x0E	Byte 1-16: Device name (ASCII) Byte 17: Firmware version	0x40	Device information (Output from the device)
4	0x01	0x20	0x03	0x08	0x0F	Preset n°: 0-24	0x40	Select the preset
Baudrate: 9600, n, 1								

Routing

N	Start byte 0	Start byte 1	Start byte 2	Length	Command	Selec. Output bus channel	Selec. Input bus channel	End byte	Function
1	0x01	0x20	0x03	0x09	0x09	output 1 :0x01 output 2 :0x02 output 3 :0x03 output 4 :0x04 output 5 :0x05 output 6 :0x0 output 7 :0x07 output 8 :0x08	Input 1:0x01 Input 2:0x02 Input 3:0x03 Input 4:0x04	0x40	Routing input to outputs
Baudrate: 9600, n, 1									

Get output channel mixer status

N	Start byte 0	Start byte 1	Start byte 2	Length	Command	Output bus channel	Input channel to output bus status (16 byte)	End byte (16 byte)	Function
1	0x01	0x20	0x03	0x1c	0x09	Analog output 1 mixer 0x01. Analog output 2 mixer 0x02. Analog output 3 mixer 0x03. Analog output 4 mixer 0x04. Analog output 5 mixer 0x05. Analog output 6 mixer 0x06. Analog output 7 mixer 0x07. Analog output 8 mixer 0x08.	Byte 1: Analog Input 1 to output buss status. Byte 2: Analog Input 2 to output buss status. Byte 3: Analog Input 3 to output buss status. Byte 4: Analog Input 4 to output buss status. Byte 5 to 16: NC Status: 0=OFF, 1=ON	0x40	Get output channel mixer status
Baudrate: 9600, n, 1									