

RS232 COMMANDS FOR WPE 48N CONTROL

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

| PIN N° | 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 Invert. Byte2: Mute Value 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 Ch5:0x05/ch6:0x06 Ch7:0x07/ch8:0x08 | Byte1: volume value 0-160. Byte2: Phase value: 0 Normal, 1 Invert. Byte2: Mute value 0-OFF, 1-ON | 0x40 | Output channel status (output from the device) |

WPE 48N

ANNEX: RS232 COMMANDS
VERSION 1.2



| N | Start byte 0 | Start byte 1 | Start byte 2 | Length | Command | Channel | Value | End byte 2 | Function |
|-----------------------------|--------------|--------------|--------------|--------|---------|--|---------------------------|------------|------------------------------|
| 6 | 0x01 | 0x20 | 0x03 | 0x08 | 0x15 | Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 | 0x00 | 0x40 | Increase the input volume |
| 7 | 0x01 | 0x20 | 0x03 | 0x08 | 0x16 | Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 | 0x00 | 0x40 | Reduce the input volume |
| 8 | 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 |
| 9 | 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 |
| 10 | 0x01 | 0x20 | 0x03 | 0x08 | 0x03 | Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 | Mute: 0x01 Cancel:0x00 | 0x40 | Change input channel Mute |
| 11 | 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 output channel Mute |
| 12 | 0x01 | 0x20 | 0x03 | 0x08 | 0x01 | Ch1:0x01/ch2:0x02 Ch3:0x03/ch4:0x04 | Range: 0 - 190 | 0x40 | Change input channel Volume |
| 13 | 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 output channel 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 | 0x16 | 0x0D | Byte 1-16: Device name (ASCII) | 0x40 | Type the device name |
| 2 | 0x01 | 0x20 | 0x03 | 0x07 | 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 | 0x07 | 0x0F | Preset n°: Byte 1: 0-24 | 0x40 | Recall 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 | Value | 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 :0x06 output 7 :0x07 output 8 :0x08 | Input 1:0x01 Input 2:0x02 Input 3:0x03 Input 4:0x04 | ON:0x01 OFF:0x00 | 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 | 0x08 | 0x0a | 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. | 0x00 | 0x40 | Get output channel Mixer Status Command |
| 1 | 0x01 | 0x20 | 0x03 | 0x17 | 0x0a | 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. | Byte1: 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 | | | | | | | | | |