4 In 8 Out Panel Crossover Central Control Box Protocol

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Communication parameter | Baud rate | 19200 | Stop bit | 1 |
| Data  [bit](C:/Program%20Files%20(x86)/Youdao/Dict/8.10.3.0/resultui/html/index.html" \l "/javascript:;)s | 8 | Packet interval | >=20ms |
| Check bit | No |  |  |

1. Mute control packet format

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0~8 | 9 | 10 | 11 | 12~ |
| Data FH (frame head) | Order | Channel | Parameter | Data FT (frame tail) |
| Packet | 0x5a, 0x20, 0x0a, 0x02, 0x0b, 0x18, 0x32, 0x01, 0x03, 0x05, 0x05, 0x4e,0xd2 | 0x00 | InA：0x00  InB：0x01  InC：0x02  InD：0x03  Out1：0x04  Out2：0x05  Out3：0x06  Out4：0x07  Out5：0x08  Out6：0x09  Out7：0x0A  Out8：0x0B | Mute：0x01  None Mute：0x00 | 0x5a, 0x3b, 0x0a, 0x00, 0x03, 0x1e, 0x0b, 0x09, 0x34, 0x07, 0x07, 0x4e |

1. Gain control packet format

Gain command parameters：0x00 ~ 0x68 ：Range -40db~+12db,step by 0.5db

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 0~8 | 9 | 10 | 11 | 12~ |
| Data FH (frame head) | Order | Channel | Parameter | Data FT (frame tail) |
| Packet | 0x5a, 0x20, 0x0a, 0x02, 0x0b, 0x18, 0x32, 0x01, 0x03, 0x05, 0x05, 0x4e,0xd2 | 0x01 | InA：0x00  InB：0x01  InC：0x02  InD：0x03  Out1：0x04  Out2：0x05  Out3：0x06  Out4：0x07  Out5：0x08  Out6：0x09  Out7：0x0A  Out8：0x0B | 0x00 ~ 0x68 | 0x5a, 0x3b, 0x0a, 0x00, 0x03, 0x1e, 0x0b, 0x09, 0x34, 0x07, 0x07, 0x4e |

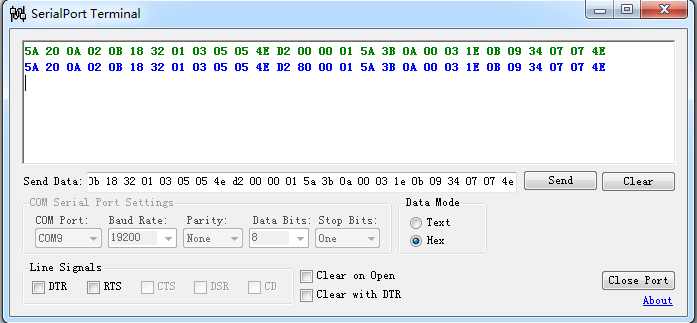
Examples:

1. Set InA mute:

Use any serial port debugging software that supports hexadecimal, set baud rate to 19200, set 8 to data, and send data after none Parity check and corresponding port.

5a 20 0a 02 0b 18 32 01 03 05 05 4e d2 00 00 01 5a 3b 0a 00 03 1e 0b 09 34 07 07 4e

如图：



接收到的数据用蓝色字体表示

发送的数据使用绿色字体显示

填入要发送的数据后点击此按钮发送数据

要发送的数据

十六进制格式数据

1位停止位

8位数据

无奇偶校验

19200波特率

设备端口号

Check figure above, we can know when the data is sent, the device will return the corresponding data after receiving and processing the data. The format of the data is as same as the sent data, except the highest position of the command byte is "1". You can also leave the data returned by the device alone.

1. Set Out1 volume to -20 dB:

Gain parameter data can be calculated by the following formula :(40 + Gain) / 0.5 = (40 + (-20db)) / 0.5 = 40(decimal data) = 0x28

Use any serial port debugging software that supports hexadecimal, set baud rate to 19200, set 8 to data, and send data after none Parity check and corresponding port

5a 20 0a 02 0b 18 32 01 03 05 05 4e d2 01 04 28 5a 3b 0a 00 03 1e 0b 09 34 07 07 4e

