

1.RS-232 Command:

Baudrate: 115200

Data width: 8bit

Parity: none

Stop: 2bit

Port switch command package length is 13byte:

[0xa5+0x5b+0x02+0x03+**input port(1~4)**+0x00+**output port(1~4)**+0x00+0x00+0x00+0x00+**checksum**]

All you need to change is just "input port", "output port", "checksum"

Checksum = 0x100 - (0xa5+0x5b+0x02+0x03+**input port**+0x00+**output port**+0x00+0x00+0x00+0x00+0x00)

For example: Set output 1 form input 2 command:

A5 5B 02 03 02 00 01 00 00 00 00 00 F8

Port switch query command package length is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example: Query output A input port (1~4)

Send package: A5 5B 02 01 **01** 00 00 00 00 00 00 00 FC

Receive package: A5 5B 02 01 01 00 **01** 00 00 00 00 00 FB

The red **01** mean the output port number, it should be 1~4.

The blue **01** mean the input port number, it should be 1~4.

Edid set command package length is 13byte:

[0xa5+0x5b+0x03+0x02+**Edid index(1~15)**+0x00+**input port(1~4)**+0x00+0x00+0x00+0x00+0x00+**checksum**]

[0xa5+0x5b+0x03+0x01+**Edid index(1~15)**+0x00+0x00+0x00+0x00+0x00+0x00+0x00+**checksum**]

Means: set edid mode to all input port

Edid query command package length is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example: Query input 1 Edid index (1~15)

Send package: A5 5B 01 0C **01** 00 00 00 00 00 00 00 **checksum**

Receive package: A5 5B 01 0C 01 00 **01** 00 00 00 00 00 **checksum**

The red **01** mean the input port number, it should be 1~4.

The blue **01** mean the Edid index number, it should be 1~15.

Edid index list:

1080p,Stereo Audio 2.0	= 1
1080p,Dolby/DTS 5.1	= 2
1080p,HD Audio 7.1	= 3
1080i,Stereo Audio 2.0	= 4
1080i,Dolby/DTS 5.1	= 5

1080i,HD Audio 7.1	= 6
3D,Stereo Audio 2.0	= 7
3D,Dolby/DTS 5.1	= 8
3D,HD Audio 7.1	= 9
4K2K30,Stereo Audio 2.0	= 10
4K2K30,Dolby/DTS 5.1	= 11
4K2K30,HD Audio 7.1	= 12
4K2K60,Stereo Audio 2.0	= 13
4K2K60,Dolby/DTS 5.1	= 14
4K2K60,HD Audio 7.1	= 15

Edid copy command package length is 13byte:

[0xa5+0x5b+0x03+0x04+**output port (1~4)**+0x00+**input port(1~4)**+0x00+0x00+0x00+0x00+0x00+**checksum**]

Means: copy output port X edid to input port X

[0xa5+0x5b+0x03+0x03+**output port (1~4)**+0x00+0x00+0x00+0x00+0x00+0x00+0x00+**checksum**]

Means: copy output port X edid to all input port

Output HDP status query command package is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example: Query output 1(1~4) HPD status

Send package: A5 5B 01 05 **01** 00 00 00 00 00 00 00 F9

Receive package: A5 5B 01 05 01 00 **FF** 00 00 00 00 00 FA

The red **01** mean the output port number, it should be 1~4.

The blue **FF** mean this port's HPD is LOW, if **00** mean HIGH.

Input port status query command package is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example: Query input 1(1~4) status

Send package: A5 5B 01 04 **01** 00 00 00 00 00 00 00 FA

Receive package: A5 5B 01 04 01 00 **FF** 00 00 00 00 00 FB

The red **01** mean the input port number, it should be 1~4.

The blue **FF** mean this port is plug out, if **00** mean plug in.

Beep on/off command package length is 13byte:

[0xa5+0x5b+0x06+0x01+**Beep onoff(0x0f:ON; 0xf0:OFF)**+0x00+0x00+0x00+0x00+0x00+0x00+0x00+**checksum**]

Beep on/off query command package is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example:

Send package: A5 5B 01 0B 00 00 00 00 00 00 00 00 F4

Receive package: A5 5B 01 0B 00 00 FF 00 00 00 00 00 F5

The blue FF mean Beep off, if 00 mean Beep on.

Device and software version query command package is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example:

Send package: A5 5B 01 01 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 01 01 01 00 00 00 00 00 00 00 checksum

The blue 01 mean HDMI Matrix.

Device List:

HDMI Matrix = 1

HDBT Matrix = 2

HDMI+HDBT Matrix = 3

For example:

Send package: A5 5B 01 02 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 01 02 04 00 04 00 00 00 00 00 checksum

The blue 04 mean 4 inputs.

The red 04 mean 4 outputs.

For example:

Send package: A5 5B 01 03 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 01 03 01 00 22 00 00 00 00 00 checksum

The blue 01 mean the integer part is 1.

The red 22 mean the decimal part is 34.

Device: HDMI Matrix 4x4 Version: 1.34

Standby Mode command package length is 13byte:

Power on: A5 5B 08 0B 0F 00 0F 00 00 00 00 00 CF

Power off: A5 5B 08 0B F0 00 F0 00 00 00 00 00 0D

Standby Mode query command package is 13byte:

This is a query command which mean you must send query package and then receive an answer.

For example:

Send package: A5 5B 08 0C 00 00 00 00 00 00 00 00 checksum

Receive package: A5 5B 08 0C 0f 00 00 00 00 00 00 00 checksum

The blue 0f mean power on, if f0 mean power off.

IR command :

NEC code

```
#define SYSTEM_CODE    0x00

#define IR_KEY_POWER          0x14

#define IR_KEY_OUTPUT_1_FROM_1    0x09
#define IR_KEY_OUTPUT_1_FROM_2    0x1D
#define IR_KEY_OUTPUT_1_FROM_3    0x1F
#define IR_KEY_OUTPUT_1_FROM_4    0x0D
#define IR_KEY_OUTPUT_1_PRE       0x1B
#define IR_KEY_OUTPUT_1_NEXT      0x11

#define IR_KEY_OUTPUT_2_FROM_1    0x17
#define IR_KEY_OUTPUT_2_FROM_2    0x12
#define IR_KEY_OUTPUT_2_FROM_3    0x59
#define IR_KEY_OUTPUT_2_FROM_4    0x08
#define IR_KEY_OUTPUT_2_PRE       0x55
#define IR_KEY_OUTPUT_2_NEXT      0x48

#define IR_KEY_OUTPUT_3_FROM_1    0x5e
#define IR_KEY_OUTPUT_3_FROM_2    0x06
#define IR_KEY_OUTPUT_3_FROM_3    0x05
#define IR_KEY_OUTPUT_3_FROM_4    0x03
#define IR_KEY_OUTPUT_3_PRE       0x07
#define IR_KEY_OUTPUT_3_NEXT      0x40

#define IR_KEY_OUTPUT_4_FROM_1    0x18
#define IR_KEY_OUTPUT_4_FROM_2    0x44
#define IR_KEY_OUTPUT_4_FROM_3    0x0f
#define IR_KEY_OUTPUT_4_FROM_4    0x51
#define IR_KEY_OUTPUT_4_PRE       0x1E
#define IR_KEY_OUTPUT_4_NEXT      0x0E
```