**KZ-MX0404H70-H100 RS-232 and IR switch command v1.5**

**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+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.

**ARC on/off command package length is 13byte:**

[0xa5+0x5b+0x10+0x01+**ARC (0x0f:ON;0xf0:OFF)**+0x00+**input port(1~4)**+0x00+0x00+0x00+0x00+0x00+**checksum**]

**ARC 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 10 02 00 00 **input port(1~4)**00 00 00 00 00 **checksum**

Receive package: A5 5B 10 02 F0 00 **input port(1~4)** 00 00 00 00 00 **checksum**

The blue F0 mean ARC off, if 0F mean ARC on.

**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: 1.5**