

HDM-B41A

4K@60 HDMI Switcher 4×1

RS232 control RS-232 and IR switch commands

1.RS-232 Command:

Baudrate: 115200

Data width: 8bit

Parity: none

Stop: 1bit

Port switch command package length is 13byte:

[0xa5+0x5b+0x02+0x03+**input port(1~4)**+0x00+**0x01**+0x00+0x00+0x00+0x00+0x00+**checksum**]

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

Checksum = $0x100 - (0xa5+0x5b+0x02+0x03+\text{input port}+0x00+0x01+0x00+0x00+0x00+0x00+0x00)$

For example: Set input 2 command:

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

Port switch query 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 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 must be 1.

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(1~4)**+0x00+**0x01**+0x00+0x00+0x00+0x00+0x00+**checksum**]

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 Edid index (1~18)

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 must be 1.

The blue **01** mean the Edid index number, it should be 1~4.

Edid index list:

Audio Auto	= 1
Stereo Audio 2.0	= 2
Dolby/DTS 5.1	= 3
HD Audio 7.1;	= 4

Output HDP status query package is 13byte:

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

For example: Query output 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 must be 1.

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

Input port status query 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.

ARC on/off command package length is 13byte:

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

ARC on/off query 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 **01** 00 00 00 00 00 **checksum**

Receive package: A5 5B 10 02 **F0** 00 **01** 00 00 00 00 00 **checksum**

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

Auto Switch on/off command package length is 13byte:

[0xa5+0x5b+0x02+0x05+**Auto Switch (0x0f:ON; 0xf0:OFF)**+0x00+0x00+0x00+0x00+0x00+0x00+0x00+0x00+**checksum**]

Auto Switch on/off query 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 0D 00 00 00 00 00 00 00 00 F2

Receive package: A5 5B 01 0D 00 00 **F0** 00 00 00 00 00 E4

The blue **F0** mean Auto Switch off, if **0F** mean Auto Switch on.