

# User Manual



## MP-DA24-KIT

### 18G HDMI 2x4 Splitter Kit over CAT5e/6/7



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Version: MP-DA24-KIT\_2025V1.4

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# 1. Product Introduction

Thanks for choosing this 2x4 HDMI Splitter Kit over CATx cable! This device distributes either one of two HDMI inputs to one HDMI and four CATx outputs. The splitter is designed with an IR loop out which is intended to cascade to additional units. It supports video resolutions up to 4K@60Hz 4:4:4 8bit and all HDMI audio formats. It can extend 1080p up to 262 feet (80 meters) and 4K signals to distance up to 229 feet (70 meters) over a single CATx Ethernet cable. It supports 12V PoC feature, which allows the receivers to be powered from the splitter over the Ethernet cables. It supports automatic video resolution down-scaling, bidirectional IR pass-through, IR cascade and RS232 control.

## 1.1 Features

- Supports HDMI V2.0, video resolutions up to 4K@60Hz 4:4:4.
- Distributes one of two UHD/4K HDMI inputs to four CATx outputs and one HDMI loop output.
- Supports cascade connection, distributes video signal to multiple video displays.
- Maximum transmission distance is up to 70m for 4K and 80m for 1080p
- Comprehensive EDID management, lowest/highest/default resolution can be chosen on the front panel for various applications.
- Supports video resolution down-scaling, the 4K input can be automatically degraded to 1080p output on receiver for compatibility with legacy 1080p display device.
- Video auto-switching based on 5V or TMDS detection.
- SPDIF and L/R audio outputs for audio de-embedding.
- Bi-directional IR pass-through and IR cascade control.
- Controllable via front panel button, IR and RS232.
- Supports 12V PoC, the receiver can be powered by the splitter.

## **1.2 Package List**

|           |                                                                                                                                                                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Splitter  | <ul style="list-style-type: none"><li>• 1x MP-DA24 2x4 HDMI Splitter over CATx</li><li>• 4x Plastic Cushions</li><li>• 1x RS232 Cable (3-pin to DB9)</li><li>• 1x IR Cable (3.5mm to 3.5mm, used for IR cascade)</li><li>• 4x IR Receivers</li><li>• 1x IR Emitter</li><li>• 1x Power Adaptor (12V DC 2A)</li></ul> |
| Receivers | <ul style="list-style-type: none"><li>• 4x MPTP-T60S-H2R Receivers</li><li>• 4x Velcro Strips</li></ul>                                                                                                                                                                                                             |
|           | <ul style="list-style-type: none"><li>• 1x User Manual</li></ul>                                                                                                                                                                                                                                                    |

**Note:** Please contact your distributor immediately if any damage or defect in the components is found.

## 2. Technical Specification

### 2.1 Splitter

|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| <b>Video Input</b>                      |                                                                               |
| Input                                   | (1) HDMI                                                                      |
| Input Connector                         | (1) Female type A HDMI                                                        |
| HDMI Input Resolution                   | Up to 4K@60Hz 4:4:4 8bit                                                      |
| <b>Video Output</b>                     |                                                                               |
| Output                                  | (1) HDMI, (4) CAT                                                             |
| Output Connector                        | (1) Female type A HDMI; (4) RJ45                                              |
| HDMI Output Resolution                  | Up to 4K@60Hz 4:4:4                                                           |
| CAT Output Resolution                   | Up to 4K@60Hz 4:4:4 (Signal has been compressed.)                             |
| <b>SPDIF Audio Output</b>               |                                                                               |
| Audio Output                            | (1) SPDIF                                                                     |
| Audio Output Connector                  | (1) Toslink                                                                   |
| Audio Format                            | LPCM 2ch, Dolby Digital 2ch, 5.1ch, 7.1ch, Dolby TureHD 7.1ch, DTS 2ch, 5.1ch |
| Output Level                            | $\pm 0.05\text{dBFS}$                                                         |
| Frequency Response                      | 20Hz ~20kHz, $\pm 1\text{dB}$                                                 |
| THD+N                                   | < 0.05%, 20Hz ~20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)       |
| SNR                                     | > 90dB, 20Hz ~20kHz bandwidth                                                 |
| Crosstalk Isolation                     | > 70dB, 10kHz sine at 0dBFS level (or max level before clipping)              |
| Noise                                   | -90dB                                                                         |
| <b>Stereo Balanced L/R Audio Output</b> |                                                                               |
| Audio Output                            | (1) Stereo balanced L/R audio                                                 |
| Audio Output Connector                  | (1) 5-pin terminal block                                                      |
| Audio Format                            | PCM                                                                           |
| Frequency Response                      | 20Hz ~20kHz, $\pm 1\text{dB}$                                                 |
| Max output level                        | 2.0Vrms $\pm 0.5\text{dB}$ .                                                  |
| THD+N                                   | < 0.05%, 20Hz ~20kHz bandwidth, 1kHz sine at 0dBFS level (or max level)       |
| SNR                                     | > 80dB, 20Hz ~20kHz bandwidth                                                 |
| Crosstalk Isolation                     | > 70 dB, 10kHz sine at 0dBFS level (or max level before clipping)             |
| L-R Level Deviation                     | < 0.3 dB, 1kHz sine at 0dBFS level (or max level before clipping)             |
| Output Load Capability                  | 1kohm and higher (supports 10x paralleled 10kohm loads)                       |
| Noise                                   | - 80dB                                                                        |

## 18G HDMI 2x4 Splitter Kit over CAT5e/6/7

| Control                |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| Control port           | (1) EDID, (1) FIRMWARE, (1) IR ALL IN, (4) IR IN, (1) IR LOOP OUT, (1) IR OUT, (1) RS232 IN |
| Control Connector      | (1) 3-pin DIP switch, (1) USB-A, (7) 3.5mm mini jacks, (1) 3-pin terminal block             |
| General                |                                                                                             |
| HDMI Standard          | 2.0                                                                                         |
| HDCP Version           | 2.2                                                                                         |
| PoC                    | 12V PoC power for the receiver                                                              |
| Transmission Distance  | 4K ≤ 70 meters (230ft), 1080p ≤ 80 meters (266ft)                                           |
| Operation Temperature  | -10 ~ +55°C                                                                                 |
| Storage Temperature    | -25~ +70°C                                                                                  |
| Relative Humidity      | 10% ~ 90%                                                                                   |
| AC Adapter Input Power | 100V~240V AC, 50/60Hz                                                                       |
| Input Power            | 12V DC 2A                                                                                   |
| Power Consumption      | 14.5W (Max)                                                                                 |
| Dimension (W*H*D)      | 200mm x 44mm x 130mm                                                                        |
| Net Weight             | 855g                                                                                        |

**Note:** SPDIF audio output does not support DTS-HD Master Audio and Dolby TrueHD format.

## 2.2 Receiver

| Video             |                                |
|-------------------|--------------------------------|
| Input             | (1) CAT                        |
| Input Connector   | (1) RJ45                       |
| Input Resolution  | Up to 4K@60Hz 4:2:0            |
| Output            | (1) HDMI                       |
| Output Connector  | (1) Type-A female HDMI         |
| Output Resolution | Up to 4K@60Hz 4:4:4 8bit HDR10 |
| Control           |                                |
| Control Part      | (1) IR In, (1) IR Out          |
| Control Connector | (2) 3.5mm jacks                |
| General           |                                |
| Bandwidth         | 18Gbps                         |
| HDMI Standard     | 2.0                            |

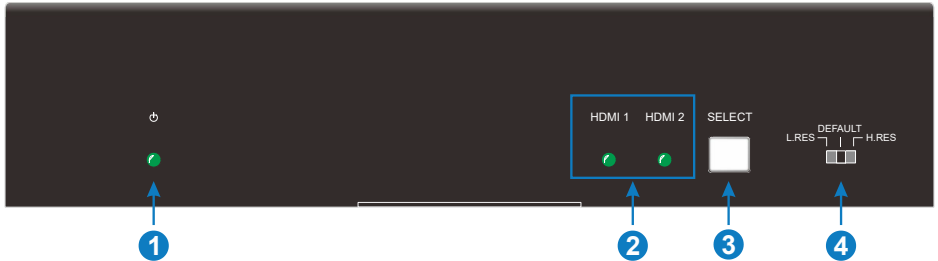
## 18G HDMI 2x4 Splitter Kit over CAT5e/6/7

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| HDCP Version          | 2.2, 1.4 compliant                                   |
| Bidirectional PoC     | Support                                              |
| HDMI 2.0 Cable Length | 4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080p ≤ 15m |
| Transmission Distance | 4K ≤ 70 meters (230ft), 1080p ≤ 262 feet (80 meters) |
| Operation Temperature | -5~ +55℃                                             |
| Storage Temperature   | -25 ~ +70℃                                           |
| Relative Humidity     | 10%-90%                                              |
| Power Supply          | Input:100V~240V AC; Output:12V DC 1A                 |
| Power Consumption     | 4W (Max)                                             |
| Dimension (W*H*D)     | 80mm x 16.8mm x 80mm                                 |
| Net Weight            | 70g                                                  |

**Note:** Please adopt quality CAT Ethernet cable compliant with CAT5e or higher standard for reliable transmission.

### 3. Panel Description

#### 3.1 Splitter Front Panel



##### 1. POWER LED:

- Illuminates green when power is applied.
- Blinks when the device is in standby mode.
- Off when power is off.

##### 2. INPUT LED:

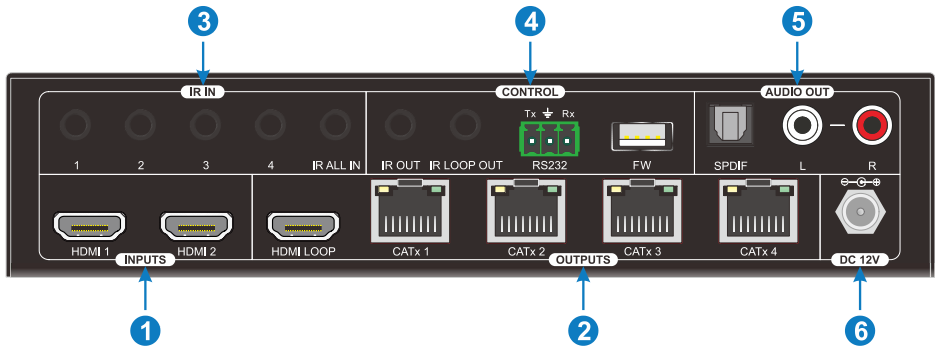
- Illuminates green when switch to current input and there is HDMI source input.
- Blinks when switch to current input but there is no HDMI source.

##### 3. SELECT Button:

- Press to switch to next input source.
- Press and hold at least three seconds to switch between manual switching mode and automatic switching mode. Please refer to the chapter [\*\*7.RS232 Control\*\*](#) for more details

##### 4. EDID: 3-pin DIP Switch for the Extended Display Identification Data (EDID) value setting. Please refer to the [\*\*8.EDID Management\*\*](#) for more details.

### 3.2 Splitter Rear Panel



1. **HDMI INPUT:** Connects to HDMI source device.
2. **OUTPUTS:**
  - HDMI: Type-A female HDMI port to connect local HDMI display device.
  - CATx 1~4: RJ45 port to connect the CATx IN port of receiver by CATx cable. It supports 12V PoC to power the receiver. The orange LED illuminates when there is a valid HDMI signal input. The green LED illuminates when power is applied.
3. **IR IN:** 3.5mm mini jack to connect IR receiver for IR pass-through. IR ALL IN can be connected to IR LOOP OUT of previous splitter.
4. **CONTROL:**
  - IR OUT: 3.5mm mini jack to connect IR emitter for IR pass-through.
  - IR LOOP OUT: Connects to IR ALL IN port of next splitter.
  - RS232: Connects to control device (e.g. PC) to control the splitter or far-end third-party devices by RS232.
5. **AUDIO OUT:**
  - Toslink audio output for audio de-embedding from HDMI output.
  - L/R audio output for audio de-embedding from HDMI output.
6. **DC 12V:** DC connector for the power adapter connection.

### 3.3 Receiver Panel

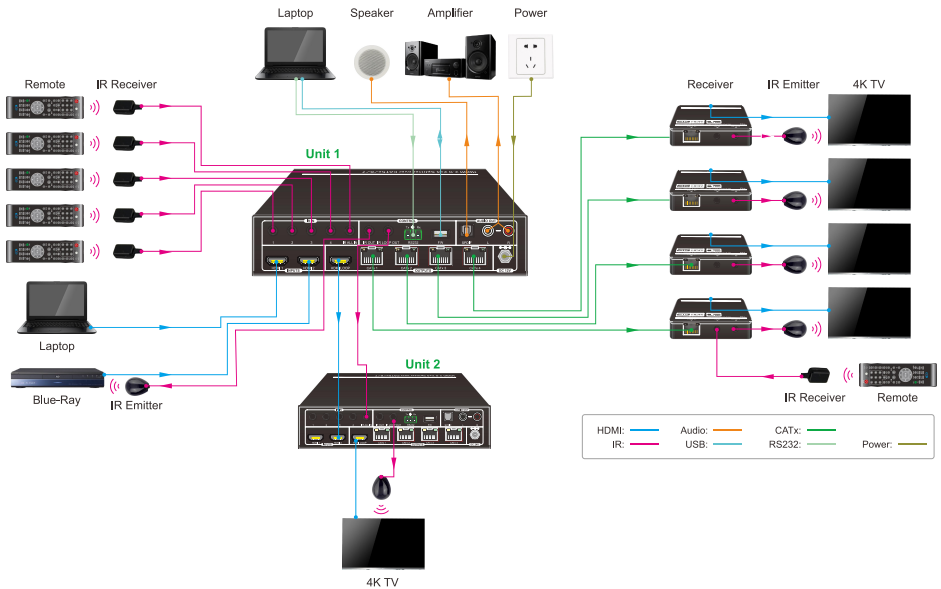
1. **DISPLAY:** Type-A female HDMI port to connect HDMI display device.
2. **CATx IN:** RJ45 port to connect the CATx OUT port of transmitter by CATx cable. It supports 12V PoC and the receiver can be powered from the transmitter. The orange LED illuminates when there is a valid HDMI signal input. The green LED illuminates when power is applied.
3. **IR IN:** 3.5mm mini jack to connect IR receiver for IR pass-through.
4. **IR OUT:** 3.5mm mini jack to connect IR emitter for IR pass-through.

### 4. System Connection

#### 4.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

#### 4.2 System Diagram



## 5. Source Switching

- 1) Press the **SELECT** button to switch to next source device, and then the corresponding input LED will turn green.
- 2) Press and hold the **SELECT** button at least 3 seconds to enable auto switching mode, and it abides by the following principles:
  - *The switcher will switch to the first available active input starting at HDMI IN 1> HDMI IN 2.*
  - *New input: Once a new input signal detected, the switcher will automatically switch to this new signal.*
  - *Source removed: When an active source is removed, the switcher will switch to the first available active input starting at HDMI IN 1.*
  - *Reboot: The switcher can save the last configuration before losing power. If the last switching mode is auto switching, the switcher will automatically enter auto switching mode once rebooted, then detect all inputs and memorize their connection status for future rebooting using. If the last selected input source is still available, the switcher will switch to this input. Otherwise, it will switch to the first available active input source starting at HDMI IN 1.*
  - *Exit auto switching mode: Press and hold the **SELECT** button for 3 seconds again to exit the auto mode, and the input source will not be changed.*

## 6. Video Resolution Down-scaling

The product supports video resolution down-scaling on 4 CAT outputs, the 4K input can be automatically degraded to 1080p output for compatibility with 1080p display, shown in the below chart.

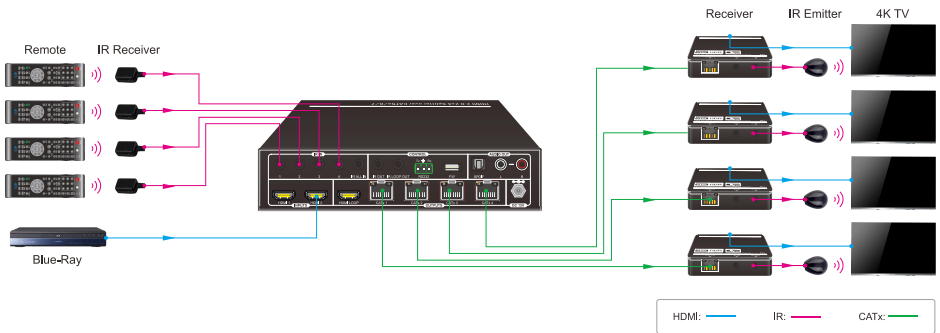
| # | Input      |         |             | Output    |                  |
|---|------------|---------|-------------|-----------|------------------|
|   | Resolution | Refresh | Color Space | Downscale | 1080p Specs      |
| 1 | 3840x2160  | 60      | 4:4:4       | Support   | 1080p@60Hz 4:4:4 |
| 2 | 3840x2160  | 30      | 4:4:4       | Support   | 1080p@30Hz 4:4:4 |
| 3 | 3840x2160  | 24      | 4:4:4       | Support   | 1080p@24Hz 4:4:4 |
| 4 | 3840x2160  | 60      | 4:2:0       | Support   | 1080p@60Hz 4:4:4 |
| 5 | 3840x2160  | 50      | 4:2:0       | Support   | 1080p@50Hz 4:4:4 |
| 6 | 3840x2160  | 60      | 4:2:2       | Support   | 1080p@60Hz 4:4:4 |
| 7 | 3840x2160  | 50      | 4:2:2       | Support   | 1080p@50Hz 4:4:4 |
| 8 | 3840x2160  | 30      | 4:2:2       | Support   | 1080p@30Hz 4:4:4 |
| 9 | 3840x2160  | 24      | 4:2:2       | Support   | 1080p@24Hz 4:4:4 |

## 7. IR Control

The IR receivers and emitters can be connected to the system to allow for IR control of remote devices. The bidirectional IR feature provides the two-way control either for the source or display device(s). Use the following sample connection diagrams to connect for IR remote control.

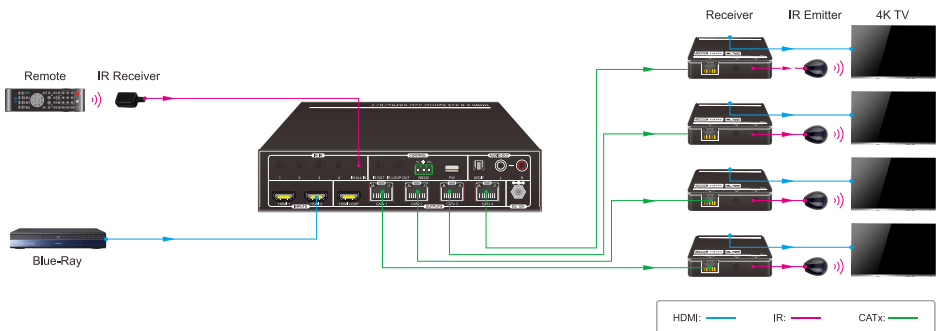
### 7.1 Controlling the Display Device by IR IN

The four **IR IN** ports of the splitter can receive IR signals from remotes to send to control displays. Connect four IR receiver to **IR IN** ports of the splitter, and then connect four IR emitters to **IR OUT** ports on receivers.



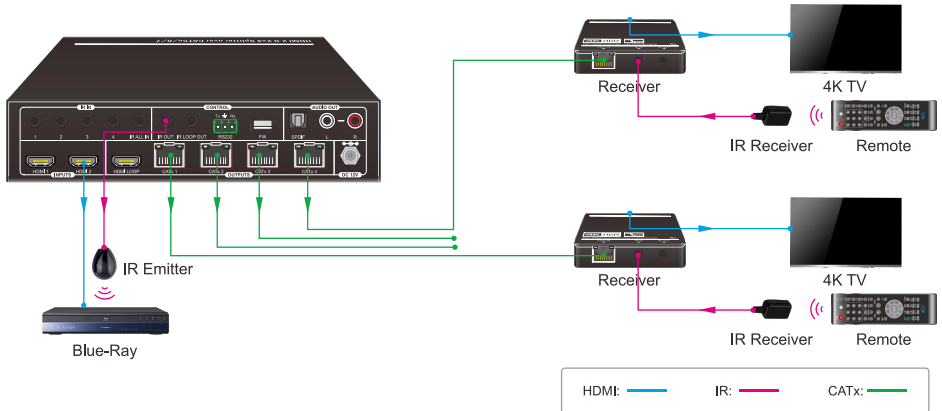
### 7.2 Controlling the Display Device by IR ALL IN

The **IR ALL IN** port of the splitter can receive all IR signals from remotes to send to control displays. Connect an IR receiver to **IR ALL IN** port of the splitter, and then connect four IR emitters to **IR OUT** port on receivers.



### 7.3 Controlling the Source Device

The **IR OUT** port of the splitter can send all IR signals to control source device. Connect four IR receivers to **IR IN** ports on receivers, and then connect an IR emitter to **IR OUT** port of the splitter.



## 8. RS232 Control

The splitter and compatible receivers features RS232 ports to transmit RS232 signals from computer to control far-end third-party devices by using 3-pin to DB9 cable and a RS232 control software, such as **docklight**. After installing the RS232 control software, please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly. Compatible receivers must be able to communicate at 9600, 19200, 38400, 57600, or 115200 baud. The splitter requires the following communication protocol parameters:

Baud rate: 9600 (default)

Data bit: 8

Stop bit: 1

Parity bit: none

### Note:

- All commands need to be ended with "<CR><LF>".
- In the commands, "[" and "]" are not needed to be typed in actual operation.
- Type the command carefully, it is case-sensitive.

### 8.1 System Commands

| Command              | Function                | Command Example and Feedback |
|----------------------|-------------------------|------------------------------|
| >SetDeviceModel:XXXX | Set the product's name. | >SetDeviceModel: MP-DA24     |
|                      |                         | <Model:MP-DA24               |
| >GetDeviceModel      | Get the product's name. | <Model:MP-DA24               |
| >SetDeviceModelRst   | Reboot the device       | >SetDeviceModelRst           |
|                      |                         | <DeviceModelRst              |

### 8.2 Signal Switching Commands

| Command           | Function                                                                  | Command Example and Feedback |
|-------------------|---------------------------------------------------------------------------|------------------------------|
| >SetVideo [Param] | Switch input source to all outputs.<br>param = 01, 02<br>01 – HDMI input1 | >SetVideo 01                 |
|                   |                                                                           | <Video 01                    |

## 18G HDMI 2x4 Splitter Kit over CAT5e

| Command                                | Function                                                                                         | Command Example and Feedback     |
|----------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------|
|                                        | 02 – HDMI input2.                                                                                |                                  |
| >GetVideo                              | Get the current input source.                                                                    | >GetVideo                        |
|                                        |                                                                                                  | <Video 01                        |
| >SetAutoSwitch<br>[Param]              | Enable or Disable auto switching.<br>Param = On, Off<br>On – Enable<br>Off - Disable             | >SetAutoSwitch On                |
|                                        |                                                                                                  | <AutoSwitch On                   |
| >GetAutoSwitch                         | Get the auto switching status.                                                                   | >GetAutoSwitch                   |
| >SetSignalDetect<br>[Param]            | Set signal detection mode.<br>param = 5V, TMDS                                                   | >SetSignalDetect 5V              |
|                                        |                                                                                                  | <SignalDetectMode 5V             |
| >GetSignalDetect                       | Get signal detection mode.                                                                       | >GetSignalDetect                 |
|                                        |                                                                                                  | <SignalDetectMode 5V             |
| >SetSystemStandbyMo<br>de [Param]      | Enable or disable standby mode.<br>param= On, Off                                                | >SetSystemStandbyMode On         |
|                                        |                                                                                                  | <SystemStandbyMode On            |
| >GetSystemStandbyMo<br>de              | Get the status of standby mode.                                                                  | >GetSystemStandbyMode            |
|                                        |                                                                                                  | <SystemStandbyMode On            |
| >SetSystemStandbyMo<br>deTime: [Param] | Set the delay time to send standby<br>commands after input signal removed.<br>param = 1 ~ 10 min | >SetSystemStandbyModeTime:<br>10 |
|                                        |                                                                                                  | <SystemStandbyModeTime:<br>10min |
| >GetSystemStandbyMo<br>deTime          | Set the delay time to send standby<br>commands after input signal removed.                       | >GetSystemStandbyModeTime        |
|                                        |                                                                                                  | <SystemStandbyModeTime:<br>10min |
| >SetSystemPowerMode<br>[Param]         | Set system on or standby mode.<br>param= On, Off                                                 | >SetSystemPowerMode On           |
|                                        |                                                                                                  | <SystemPowerMode On              |

## 18G HDMI 2x4 Splitter Kit over CAT5e

| Command                  | Function                                                                            | Command Example and Feedback |
|--------------------------|-------------------------------------------------------------------------------------|------------------------------|
| >GetSystemPowerMode      | Get the system power status.                                                        | >GetSystemPowerMode          |
|                          |                                                                                     | <SystemPowerMode On          |
| >SetRS232Baud<br>[Param] | Set the baud rate of splitter.<br>param = 115200<br>57600<br>38400<br>19200<br>9600 | >SetRS232Baud 115200         |
|                          |                                                                                     | <SetRS232Baud 115200         |
| >GetRS232Baud            | Get the baud rate of splitter.                                                      | <GetRS232Baud                |

### 8.3 CEC Commands

|                            |                                                                                       |                    |
|----------------------------|---------------------------------------------------------------------------------------|--------------------|
| >SetCecSrcMenu<br>[Param]  | Send CEC MENU command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcMenu 01  |
|                            |                                                                                       | <CecSrcMenu 01     |
| >SetCecSrcUp [Param]       | Send CEC UP command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2   | >SetCecSrcUp 01    |
|                            |                                                                                       | <CecSrcMenu 01     |
| >SetCecSrcDown<br>[Param]  | Send CEC DOWN command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcDown 01  |
|                            |                                                                                       | <CecSrcDown 01     |
| >SetCecSrcLeft [Param]     | Send CEC LEFT command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcLeft 01  |
|                            |                                                                                       | <CecSrcLeft 01     |
| >SetCecSrcRight<br>[Param] | Send CEC RIGHT command to source device.<br>Param = 01, 02<br>01 – HDMI1              | >SetCecSrcRight 01 |
|                            |                                                                                       | <CecSrcRight 01    |

## 18G HDMI 2x4 Splitter Kit over CAT5e

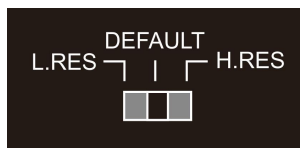
|                                             |                                                                                        |                    |
|---------------------------------------------|----------------------------------------------------------------------------------------|--------------------|
|                                             | 02 – HDMI2                                                                             |                    |
| <b>&gt;SetCecSrcBack</b><br><b>[Param]</b>  | Send CEC BACK command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2  | >SetCecSrcBack 01  |
|                                             |                                                                                        | <CecSrcBack 01     |
| <b>&gt;SetCecSrcEnter</b><br><b>[Param]</b> | Send CEC ENTER command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcEnter 01 |
|                                             |                                                                                        | <CecSrcEnter 01    |
| <b>&gt;SetCecSrcOn [Param]</b>              | Send CEC ON command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2    | >SetCecSrcOn 01    |
|                                             |                                                                                        | <CecSrcOn 01       |
| <b>&gt;SetCecSrcOff [Param]</b>             | Send CEC OFF command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2   | >SetCecSrcOff 01   |
|                                             |                                                                                        | <CecSrcOff 01      |
| <b>&gt;SetCecSrcStop</b><br><b>[Param]</b>  | Send CEC STOP command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2  | >SetCecSrcStop 01  |
|                                             |                                                                                        | <CecSrcStop 01     |
| <b>&gt;SetCecSrcPlay</b><br><b>[Param]</b>  | Send CEC PLAY command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2  | >SetCecSrcPlay 01  |
|                                             |                                                                                        | <CecSrcPlay 01     |
| <b>&gt;SetCecSrcPause</b><br><b>[Param]</b> | Send CEC PAUSE command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcPause 01 |
|                                             |                                                                                        | <CecSrcPause 01    |
| <b>&gt;SetCecSrcPrev</b><br><b>[Param]</b>  | Send CEC PREV command to source device.<br>Param = 01, 02<br>01 – HDMI1                | >SetCecSrcPrev 01  |
|                                             |                                                                                        | <CecSrcPrev 01     |

## 18G HDMI 2x4 Splitter Kit over CAT5e

|                                                   |                                                                                               |                          |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------|
|                                                   | 02 – HDMI2                                                                                    |                          |
| <b>&gt;SetCecSrcNext</b><br><b>[Param]</b>        | Send CEC NEXT command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2         | >SetCecSrcNext 01        |
|                                                   |                                                                                               | <CecSrcNext 01           |
| <b>&gt;SetCecSrcRewind</b><br><b>[Param]</b>      | Send CEC REWIND command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2       | >SetCecSrcRewind 01      |
|                                                   |                                                                                               | <CecSrcRewind 01         |
| <b>&gt;SetCecSrcFastForward</b><br><b>[Param]</b> | Send CEC Fast-forward command to source device.<br>Param = 01, 02<br>01 – HDMI1<br>02 – HDMI2 | >SetCecSrcFastForward 01 |
|                                                   |                                                                                               | <CecSrcFastForward 01    |
| <b>&gt;SetCecDisplayOn</b><br><b>[Param]</b>      | Send CEC ON command to display devices.                                                       | >SetCecDisplayOn         |
|                                                   |                                                                                               | <CecDisplayOn            |
| <b>&gt;SetCecDisplayOff</b><br><b>[Param]</b>     | Send CEC OFF command to display devices.                                                      | >SetCecDisplayOff        |
|                                                   |                                                                                               | <CecDisplayOff           |

## 9. EDID Management

The Extended Display Identification Data (EDID) is used by the source device to match its video resolution with the connected display. By default, the source device use the built-in EDID (3840x2160@60Hz Deep Color Stereo Audio). Meanwhile, since the displays with different capabilities are connected to the splitter, the 3-pin DIP switch on the front panel can be used to set the EDID to a fixed value to ensure the compatibility in video resolution.



| Switch Status | Description                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------|
| L.RES         | The splitter reads all EDID information from all connected displays, and choose the one with lowest resolution passing to the source.  |
| DEFAULT       | 3840x2160@60Hz Deep Color Stereo Audio                                                                                                 |
| H.RES         | The splitter reads all EDID information from all connected displays, and choose the one with highest resolution passing to the source. |

## 10. Firmware Upgrade

Please follow the below steps to upgrade firmware by the USB-A port:

- 1) Prepare the latest upgrade file (.bin) and rename it as "FW\_MERG.bin" on PC.
- 2) Power off the splitter and connect the Micro-USB (FIRMWARE) port of splitter to the PC with USB cable.
- 3) Power on the splitter, and then the PC will automatically detect a U-disk named of "BOOTDISK".
- 4) Double-click to open the U-disk, a file named of "READY.TXT" will be showed.
- 5) Directly copy the latest upgrade file (.bin) to the "BOOTDISK" U-disk.
- 6) Reopen the U-disk to check whether there is a filename "SUCCESS.TXT", if yes, the firmware was updated successfully, otherwise, the firmware updating is fail, the name of upgrade file (.bin) should be confirmed again, and then follow the above steps to update again.
- 7) Remove the USB cable and reboot the splitter after firmware upgrade.