

Specifications

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| Environment | HDMI 2.0a |
| Devices | Ultra HD Blu-Ray, projectors, monitors, TV, PC, laptops. |
| Transmission | Transparent to the user. |
| Video Bandwidth | 18 Gbps |
| Frequency Range | 25 to 600 MHz |
| Signals | HDMI 2.0a protocol. |
| HDCP | Revision 1.4 & 2.2 compliant. |
| Connectors | HDMI receptacle. |
| Dip Switch | For setting the EDID to be sent to the source (pins: 2, 3 and 4). (Note: Pin 1 is used to select between normal operation and firmware updates via the USB service port.) |
| LEDs | Power: Blue Input & Output Link: Blue |
| Resolution | 480i to 1080p @ 50/60 FPS 1080p @ 24/50/60 FPS 3840 X 2160 @ 24/25/30/60 FPS |
| Color | 8, 10 & 12 bit |
| Audio | LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X |
| Cable | HDMI cable of appropriate length for video resolution selected. |
| Power Supply | One (1) 110-240V/5VDC , 2A power supply |
| Temperature | Operating: 0° to 40°C Storage: -20° to 60°C Humidity: up to 90% non-condensing |
| Enclosure | Metal enclosure |
| Bracket | Included |
| Dimensions | 5.71" x 2.64" x 1.00" (145 mm x 67 mm x 25 mm) |
| Weight | 1.2 lbs (0.55 Kg) |
| Compliance | Regulatory: FCC, CE, RoHS |
| Warranty | 2 years |
| Order Information | 500426 HDMI 1X4 Splitter, 4K/60 |



HDMI 1X4 Splitter, 4K/60 (500426)

Quick Installation Guide

Overview

The HDMI 1x4 Splitter (500426) allows one (1) HDMI source to be distributed to up to four (4) HDMI displays. The splitter supports up to 4K (3840 X 2160) video and HD audio. The splitter is HDCP 1.4 & 2.2 compliant, supports EDID management and features LED diagnostics. Each output supports an independent down-scaler from 4K to 1080p, depending on the connected display. Additionally, all connectors are on the rear panel for neater cabling. Applications include; commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.

Pre-Installation Check

Identify the connectors as indicated on the product diagram above. LEDs are located on the front and the connectors and dip switch on the rear.



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Installation

In order to install the HDMI 1X4 Splitter, please follow the steps below:

1. Connect the HDMI video source to the input HDMI connector of the splitter with an appropriate HDMI cable.
2. Connect the HDMI display equipment to the output HDMI connectors of the splitter with appropriate HDMI cables.
3. Use the Dip switch to select the EDID that will be sent to the HDMI source device as indicated on the Dip switch table.
4. Connect the 5 VDC power supply to the splitter first, and then plug the power supply into an AC power outlet.
5. Power on the HDMI equipment and verify the image quality.
6. The following diagram shows the final configuration.



Mode Switch Selection

Use the Dip switch to select the EDID that will be sent to the HDMI source device.

| Dip 2 | Dip 3 | Dip 4 | Function |
|-------|-------|-------|---|
| Off | Off | Off | EDID Ultra-HD (3840X2160@60Hz) – 7.1 Audio |
| On | Off | Off | EDID Ultra-HD (3840X2160@60Hz) – 2.0 Audio |
| Off | On | Off | EDID Ultra-HD (3840X2160@30Hz) – 7.1 Audio |
| On | On | Off | EDID Ultra-HD (3840x2160@30Hz) – 2.0 Audio |
| Off | Off | On | EDID Full-HD (1080p, 3D, 12bit) – 7.1 Audio |
| On | Off | On | EDID Full-HD (1080p, 8bit) – 2.0 Audio |
| Off | On | On | EDID 1080i – 7.1 Audio |
| On | On | On | Learn EDID of the device connected to Output 1 and send it intact to the input port |

Note: Dip 1 should be left in the default “Off” position for normal operation.

Firmware Updates: Dip 1 should be set to “On” only when performing firmware updates. In this case save the included update files from the MuxLab website (firmware “Bin” file & installer software) in the same folder of a PC connected to the 500426 USB service port. Steps: Turn Dip 1 to “On”, connect the PC to the 500426 USB service port, power on the 500426, and run the installer software. The update is performed automatically. Once the update is completed, return Dip 1 to “Off” for normal operation.

Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in regard to the installation of the HDMI 1X4 Splitter.

| Picture/Sound | Probable Cause | Possible Solution |
|-------------------|-----------------|---|
| No Image | Wiring | Check continuity Check correct wiring |
| No Image | Synchronization | Power off the source and displays, then power them back on. |
| Flickering Image | Synchronization | Check HDMI cable length against industry standards. |
| Choppy Sound | Synchronization | Check HDMI cable length against industry standards. |
| Noise in image | Weak signal | Check HDMI cable length against industry standards. |
| Green or pink hue | HDMI cables | Check HDMI cables and replace as needed. |

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).