



The 18Gbps 8x8 HDMI Matrix enables the distribution of video (up to 4K2K@60Hz YUV 4:4:4) and multi-channel high-resolution digital audio from 8 HDMI sources to 8 HDMI displays. It supports audio de-embedding to both analog and coaxial outputs from the 8 HDMI output ports. When HDMI output ARC is enabled, ARC audio from HDMI display devices is extracted to the coaxial audio output. Each HDMI output features independent 4K2K to 1080P downscaling. The matrix can be controlled via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

Key Features

- HDMI 2.0b, HDCP 2.2 and HDCP 1.4 compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI ports
- Support 18Gbps video bandwidth
- Dolby Vision, HDR10+ and HLG are supported.
- Support 4K->1080P Down Scaler for each output port
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Audio de-embedded is supported via analog and coax ports
- ARC, CEC and smart EDID management are supported
- 1U rack mounted design with front panel OLED display
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI

Specifications

Technical

Parameter	Specification
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbp
Video Resolution	Up to 4K2K@50/60Hz (4:4:4)
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Coax Audio Formats	LPCM 2.0, Dolby Digital / Plus, DTS 5.1
L/R Audio Formats	PCM2.0CH
HDR Support	HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	Human body model: ±8kV (air-gap discharge) & ±4kV (contact discharge)

Resolution / Cable Length

- Resolution : 4K60 - 4K30 - 1080P60
- HDMI IN / OUT : 16ft / 5M - 32ft / 10M - 50ft / 15M

Connections

- Input Ports:
 - 8x HDMI Type A [19-pin female]
 - 1x IR EXT [3.5mm Stereo Mini-jack]
- Output Ports:
 - 8x HDMI Type A [19-pin female]
 - 8x Coax Audio (RCA)
 - 8x L/R Audio [3.5mm Stereo Mini-jack]
- Control Ports:
 - 1x TCP/IP [RJ45]
 - 1x RS-232 [D-Sub 9]

Mechanical

- Housing: Metal Enclosure
- Color: Black
- Dimensions: 440mm (W) x 200mm (D) x 44.5mm (H)
- Weight: 2.8kg
- Power Supply: Input: AC 100 - 240V 50/60Hz |
Output: DC 12V/5A
(US/EU standard, CE/FCC/ULcertified)
- Power Consumption (Max): 43W
- Operation Temperature: 14°F - 113°F / -10°C - 45°C
- Storage temperature: -4°F - 140°F / -20°C - 60°C
- Relative Humidity: 20 - 90% RH (no condensation)