Front side

Back side

4x4 HDMI 2.0 Matrix over Cat 70m 18Gbps

The 18Gbps 4x4 HDMI Matrix can connect four HDMI sources to eight displays. It features four HDMI outputs, and each HDMI output is mirrored to provide a Cat-Cable output that runs simultaneously. It supports video transmission (up to 1080p Full HD and 4Kx2K@60Hz 4:4:4) and HD digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, and DTS-HD Master Audio. Connect a Cat Receiver to each Cat-Cable output to extend the HDMI signal up to 230ft/70m for multi-room connectivity. Each HDMI output supports 4K2K to 1080P downscale independently. The product supports control via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

Featured Highlights

- HDMI 2.0b and HDCP 2.2/1.x compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI & Cat ports
- 4 HDMI inputs, 4 HDMI & Cat mirrored outputs
- HDMI ports support 18Gbps lossless uncompressed video bandwidth
- Supports 4K->1080P Down Scaler for each output port
- HDR, HDR10, HDR10+, Dolby Vision, HLG are supported
- Cat output can extend the transmission distance up to 230ft/70m via a single Cat6 cable
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Advanced EDID management and CEC control are supported
- 12V PoC on all Cat ports
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@50/60Hz (4:4:4)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit(10-bit,12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
HDR	HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Transmission Distance	230ft / 70m (via a single Cat6 cable)
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

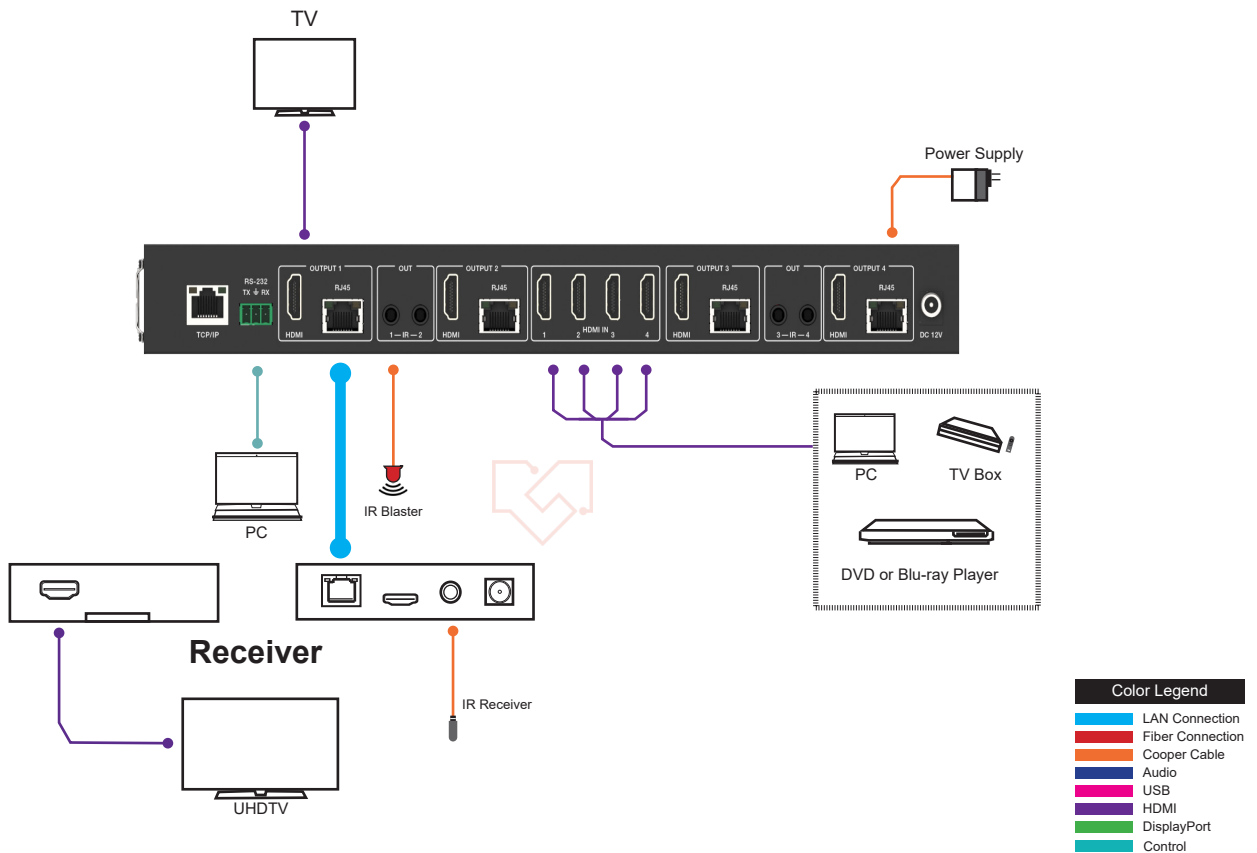| Resolution / Cable Length	4K60 - Feet /Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M
The use of "Premium High Speed HDMI" cable is highly recommended.			

MECHANICAL

Housing	Metal Enclosure
Color	Black
Weight	Matrix: 915g, Receiver: 155g
Dimensions	Matrix: 320mm (W) × 100mm (D) × 36mm (H) Receiver: 61mm (W) x 88mm (D) x 18mm (H)
Power Supply	Input: AC 90 - 260V 50/60Hz Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	19.68W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (Non-Condensation)

CONNECTION

Matrix	Inputs: 4 x HDMI Type A [19-pin female] Outputs: 4 x HDMI Type A [19-pin female] 4 x Cat port [RJ45] 4 x IR OUT [3.5mm Stereo Mini-jack] Controls: 1 x TCP/IP [RJ45] 1 x RS-232 [3-pin phoenix connector]
Cat Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x Cat port [RJ45] Output: 1x HDMI Type A [19-pin female] Control: 1x SERVICE [Micro USB, Update port]

APPLICATION EXAMPLE

AppliCations   Digital Signage, Conference Rooms, Operating Rooms and Audio-Video Rooms