



Front side



Back side

8x8 HDMI 2.0 Matrix over HDBaseT 100m 18Gbps

The 18Gbps 8 by 8 HDBaseT(100M) Matrix can connect eight HDMI sources to sixteen displays. It features eight HDMI outputs, and each HDMI output is mirrored to provide a Cat-Cable output that runs simultaneously. It supports video resolution up to 4K@60Hz 4:4:4. The HDBaseT output can extend video transmission distance up to 328ft / 100m via a single Cat 5e/6/7 cable.

Featured Highlights

- HDMI 2.0b, HDCP 2.2 and HDCP 1.4 compliant
- 8 HDMI inputs, 8 HDMI outputs and 8 HDBaseT mirrored outputs
- Supports video resolution up to 4K@60Hz 4:4:4
- HDMI ports transmit 18Gbps lossless uncompressed video bandwidth
- Supports 18Gbps lossless compressed HDBaseT signal transmission
- Supports 4K->1080P Down Scaler
- Dolby Vision, HDR10+, HLG are supported
- HDBaseT output can extend video transmission distance up to 328ft / 100 meters via a single Cat 5e/6/7 cable.
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Supports ARC function on local HDMI and HDBaseT output ports
- IR matrix and Audio matrix are supported
- Supports smart EDID management
- 24V POC on all HDBaseT 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 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@50/60Hz (4:4:4)
Color Space	RGB, YCbCr 4:4:4/2:2/4:2:0
HDMI Audio Formats (Pass-through)	PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Coax Audio Formats	PCM 2.0, Dolby Digital / Plus, DTS,
L/R Audio Formats	PCM2.0
HDR formats	4:4:4:2:2:4:2:0(10,12bit deep color) HDR10,HDR10+,Dolby Vision, HLG
Infrared	20KHz ~ 60KHz
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	TX: 440mm (W)×362mm (D)×88mm (H) RX: 163mm (W)×90.3mm (D)×18mm (H)
Weight	TX: 6.9 kg, RX: 392g
Power Supply	AC 100 - 240V 50/60Hz
Power Consumption	128W (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			
Input Ports	8×INPUT [HDMI Type A, 19-pin female] 10×IR INPUT [3.5mm Stereo Mini-jack] 2×Stereo Audio [3.5mm Stereo Mini-jack B] 1×SPDIF(OPTICAL) 1×SPDIF(COAX)		
Output Ports	8×HDMI OUTPUT [HDMI Type A, 19-pin female] 8×HDBaseT port [RJ45] 9×IR OUTPUT [3.5mm Stereo Mini-jack] 8×RS-232 [3-pin Phoenix connector] 8×SPDIF(COAX) 8×Stereo Audio[3.5mm Stereo Mini-jack] 1×LAN [RJ45]		
Control Ports	1×TCP/IP [RJ45] 1×RS-232 [D-Sub 9]		
HDBaseT Receiver			
Input Ports	1×HDBaseT IN [RJ45] 1×IR IN [3.5mm Stereo Mini-jack]		
Output Ports	1×HDMI OUT [HDMI Type A, 19-pin female] 1×IR OUT [3.5mm Stereo Mini-jack]		
Control Ports	1×SERVICE [Micro USB, Update port] 1×RS-232 [Phoenix jack] 2×LAN [RJ45]		
Resolution / Distance	4K60 - Feet / Meters		
Cat 5e/6/7	328ft / 100M		
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.			

APPLICATION EXAMPLE

