

ANY SIGNAL ANYWHERE

TMX88PRO AV 8x8 HDMI 2.0 HDBaseT Matrix Switcher



The TMX88PRO AV is a professional 8x8 HDMI 2.0 HDBaseT matrix switcher. The matrix is an eight-input by eight-output HDBaseT and HDMI matrix with HDCP 2.2 and up to 4K/UHD@60Hz video support. It transmits 4K video to distances up to 40 meters and 1080p video to distances up to 70 meters over a single CATx Ethernet cable.

Features

- 8x8 HDBaseT matrix switcher with built in audio matrix.
- Fully compliant with the HDMI 2.0 and HDCP 2.2.
- Supports HDMI resolutions up to 4K@60Hz 4:4:4, HDR10.
- Features eight mirrored HDMI outputs for eight HDBaseT outputs
- The eight HDBaseT outputs support 24V PoC, allowing the receivers to draw their power from the matrix switcher over the HDBaseT cable.
- Transmits a 4K signal up to 40 meters and a 1080p signal up to 70 meters over a single CATx Ethernet cable.
- Volume adjustment for analog L+R audio outputs.
- Supports comprehensive EDID management and advanced HDCP management.
- CEC Control.

Specifications

Video Input	
Input	(8) HDMI
Input Connector	(8) Type-A female HDMI
HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4, HDR10, 1080p 3D
Video Output	
Output	(8) HDBaseT, (8) HDMI
Output Connector	(8) RJ45, (8) Type-A female HDMI
HDMI Output Resolution	Up to 4Kx2K@60Hz 4:4:4, HDR10, 1080p 3D. Supports 4K to 1080p down-scaling.
HDBaseT Output Resolution	Up to 4Kx2K@60Hz 4:2:0
Audio Output	
Output	(8) Stereo analog L+R audio, (8) Digital SPDIF audio
Output Connector	(8) 3-pin terminal blocks, (8) Toslink connectors
Analog L+R Audio Format	Supports PCM
Digital SPDIF Audio Format	Supports PCM, Dolby Digital, DTS, DTS-HD
Local Audio Sampling Rate	Supports 44.1KHz, 48KHz, 96KHz
ARC Audio Sampling Rate	Supports 48KHz, 96KHz
Frequency Response	20Hz – 20KHz, ± 3 dB
Audio Output Impedance	70Ohms
Max Input Level	L+R: 2.0Vrms \pm 0.5dB. 2V = 16dB headroom above -10dBV (316mV) nominal consumer line level signal. SPDIF: ± 0.05 dBFS.
THD+N	< 0.05% (-80dB), 20Hz – 20KHz bandwidth, 1KHz sine at 0dBFS level (or max level).
SNR	L+R: > 80dB, 20Hz - 20KHz bandwidth. SPDIF: > 90dB, 20Hz-20 kHz bandwidth.
Crosstalk Isolation	SPDIF: < -70 dB, 10KHz sine at 0dBFS level (or max level before clipping). L+R: < -80 dB, 10KHz sine at 0dBFS level (or max level before clipping).
L-R Level Deviation	L+R: < 0.3dB, 1KHz sine at 0dBFS level (or max level before clipping).
Frequency Response Deviation	< \pm 0.5dB 20Hz - 20KHz.
Output Load Capability	L+R: 1K Ω and higher (Supports 10x paralleled 10K Ω loads).
Stereo Channel Separation	>70dB@1KHz.
Noise Level	L+R: -80dB; SPDIF: -90dB

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Control Part	
Control port	(8) IR IN, (1) IR ALL IN, (8) IR OUT, (1) IR ALL OUT, (1) IR REC, (9) RS232, (1) FIRWARE, (1) TCP/IP
Control Connector	(19) 3.5mm jacks, (9) 3-pin terminal blocks, (1) Type-A USB, (1) RJ45
General	
Transmission Mode	HDBaseT
Transmission Distance	1080p ≤ 230 feet (70 meters), 4K@60Hz ≤ 131 feet (40 meters)
Bandwidth	18Gbps
Operation Temperature	-5°C ~ +55°C
Storage Temperature	-25°C ~ +70°C
Relative Humidity	10% ~ 90%
External Power Supply	100V~240V AC, 50/60Hz
Power Consumption	125W (Max)
Dimension (W*H*D)	436.6mm x 88mm x 440mm
Net Weight	5.8kg