



TECHNICAL SPECIFICATIONS

SPECIFICATION

Matrix Switcher

Video Input	
Input	(8) HDMI
Input Connector	(8) Type-A female HDMI
HDMI 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
HDMI Audio Signal	LPCM 7.1 audio, Dolby Atmos®, Dolby® TrueHD, Dolby Digital® Plus, DTS:X™, and DTS-HD® Master Audio™ pass-through.



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	700ohms
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	< 3 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

Control Part	
Control port	(8) IR IN, (1) IR ALL IN, (8) IR OUT, (1) IR ALL OUT, (1) IR EYE,(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 \leq 230 feet (70 meters), 4K@60Hz \leq 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

HDBaseT Receiver

Video	
Input	(1) HDBT
Input Connector	(1) RJ45
Input Resolution	Up to 4Kx2K@60Hz 4:2:0
Output	(1) HDMI
Output Connector	(1) Type-A female HDMI
Output Resolution	Up to 4Kx2K@60Hz 4:4:4 8bit, HDR10

Audio	
Input	(1) ARC Audio In
Input Connector	(1) Toslink Connector
Output	(1) Audio Breakout
Output Connector	(1) Toslink connector
Audio Format	Supports PCM, Dolby Digital, Dolby True-HD, DTS and DTS-HD.
Frequency Response	20Hz - 20KHz, ± 3 dB
Max Output Level	2.0Vrms ± 0.5 dB. 2V = 16dB headroom above -10dBV (316mV) nominal consumer line level signal
THD+N	< 0.05% (-80dB), 20Hz - 20KHz bandwidth, 1KHz sine at 0dBFS level (or max level)
SNR	> 85dB, 20Hz-20 kHz bandwidth
Crosstalk Isolation	> 70dB, 10KHz sine at 0dBFS level (or max level before clipping)
L-R Level Deviation	< 0.3dB, 1KHz sine at 0dBFS level (or max level before clipping)
Frequency Response Deviation	< ± 0.5 dB 20Hz - 20KHz
Output Load Capability	1K Ω and higher (Supports 10x paralleled 10K Ω loads)
Stereo Channel Separation	>70dB@1KHz

Control	
Control Part	(1) ARC Mode button, (1) FW, (1) IR In, (1) IR Out, (1) RS232
Control Connector	(1) Micro-USB port, (2) 3.5mm jacks, (1) 3-pin terminal block

General	
Bandwidth	18Gbps
HDMI Standard	2.0
HDCP Version	2.2, 1.4 compliant
CEC	Pass-through
Bidirectional PoC	Supported
HDMI 2.0 Cable Length	4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 15m, 1080p ≤ 20m
Transmission Standard	HDBaseT
Transmission Distance	1080p@60Hz ≤ 230 feet (70 meters), 4K@60Hz ≤ 131 feet (40 meters)
Operation Temperature	-5°C ~ +55°C
Storage Temperature	-25°C ~ +70°C
Relative Humidity	10%-90%
Power Supply	Input:100V~240V AC; Output:24V DC 1.25A
Power Consumption	12W (Max)
Dimension (W*H*D)	40mm x 19.5mm x 84mm
Net Weight	290g