Matrox[®] ConvertIP[™] DRH

Dual-channel RJ45 HDMI-to-IP transmitter/receiver

Matrox ConvertIP DRH is a compact, standalone ST 2110 and IPMX transmitter/receiver device. Featuring HDMI I/O and three RJ45 ports on a singe device, ConvertIP DRH is designed for 1G AV workflows and is optimal for an ultra-low latency experience. The device can deliver power over Ethernet through its RJ45 connection, or it can be powered through an optional power supply unit. Both can be used simultaneously to deliver power redundancy.



Technical specifications

Product				
Toduct	Part Number	CIP-DRH		
	Part Number			
	Form Factor	Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal)		
Connectivity				
	Video Input	1x HDMI		
	Video Input Resolutions	HD and 4K broadcast resolutions		
	Video Outputs	1x HDMI (zero latency pass-through in Tx mode)		
	Video Output Resolutions	HD and 4K broadcast resolutions		
	Audio Input/Output	Up to 8 channels of audio embedded in HDMI signal Unbalanced analog stereo input via 1/8" (3.5mm) jack Line Level		
	Network Connector	3x RJ45 (LAN 1 for Media and Control with PoE, LAN 2 for Media and Control (redundant), Control LAN for Control data)		
	RS-232	Yes¹		
	Control and Management	Web browser-based UI, standalone utility		
Performance				
	Maximum Video Resolutions	4096 x 2160 60p		
	Bit Depth and Color Space	YCbCr 4:2:0 10-bit² and 8-bit³ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR⁴		
Video and Audio Processing				
	Video Scaling	High Quality multi-tap 10-bit Up/Down Scaler		
	Video Deinterlacing	Yes		
	Color Space Conversion	Yes		
	HDCP Support	Yes		
Encoding formats				
	Video ^s	ProAV 4:4:4 8-bit codec; HD 200 Mbps, 4K 800 Mbps Optional: JPEG-XS 4:2:2 10-bit; HD 400 Mbps, 4K 1.6 Gbps		
	Audio	Uncompressed PCM (~1 Mbps/ch)		
	Latency	Less than a 1/4 frame (<4 ms)		
Network				
	IP Addressing	Pv4 Pv66 DHCP (default) and static IP		
	Supported Protocols	• SMPTE ST 2110 (-10, -20, -21, -22,-30, -31, and -40) • SMPTE ST 2059-2 • SMPTE ST 2022-7		
	Redundancy	Yes (ST 2022-7)		
	Command and Control	HTTPS over TCP		
	Discovery, Registration and Control	NMOS discovery and control according to standards IS-04 v1.3 and IS-05 v1.1		
	PoE+	Yes (IEEE 802.3at Type 2)		



Physical				
	Product Dimensions	7.13 (D) x 7.53 (W) x 1.42 (H) inches 181 (D) x 191 (W) x 36 (H) mm		
	Unit Weight	1.40 lbs / 635 g		
	Cooling	Fanless		
	Power	Device: Input: 12 volts, max 18 Watts PoE+ Optional PSU (sold separately) Line Voltage: 100-240 V a.c., 0.5A Frequency: 50-60 Hz Input: IEC320-C14 Output: DIN4 locking power connector		
Hardwar	Hardware and Software			
	Hardware Included	ConvertIP DRH appliance		
	Optional Hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-SERV)		
	Accessories (sold separately)	ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK) ⁷ Rackmount kit ⁸ (Part #: RMK-19TR-A) Angled bracket kit (Part #: RMK-6BRKT-A) Secure cable solution for HDMI (Part #: SK-SLND-4) NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)		
	Software	Matrox ConvertIP Command Center (Web UI) Matrox ConvertIP Manager (Microsoft® Windows® 10)		
	Optional software	JPEG-XS codec license		
Environmental				
	Operating Conditions	Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing		
	Storage Conditions	Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing		
General				
	EMC/EMI Device Class	Class A		
	EMC/EMI Compliance	CE (EU) FCC (USA) ICES-003 (Canada) KC (Korea) RCM (Aus/NZ)		
	Environmental Compliance	China RoHS EU RoHS REACH		
	Warranty	Three-year limited warranty with free online or telephone support		

- 1. 2. 3. 4. 6. Available in a future software update.
 5. Bitrates will vary according to resolution.
 7. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.
- 8. Can fit up to two ConvertIP units in a 1RU space.





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