Matrox® ConvertIP™ SRST

Single-channel RJ45 HDBaseT™-to-IP transmitter/receiver

For businesses and organizations outfitted with HDBaseT installations, moving to new infrastructure can be complicated and costly. Matrox ConvertIP SRST transmitter/receiver device now enables you to scale existing HDBaseT network infrastructure—by integrating HDBaseT content into and from the IP network—without the additional cost of upgrading your current equipment or infrastructure. Based on open standards, ConvertIP SRST is also compatible with a SMPTE ST 2110 network.

Technical specifications

Product		
	Part Number	CIP-SRST
	Form Factor	• Standalone appliance • Rack-mountable: 1U, 1/2 rack (horizontal)
Connectivity		
	Video Input	HDBaseT™ v3
	Audio Input/Output	Up to 8 channels of audio embedded

	Network Connector	• 1x RJ45 LAN for Media/Control
		• 1x SFP28 cage for Media/Control
		  • 10 GbE IEEE 802.3ae (10GBASE-SR/LR)
		  • 25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S)
		  • 25 GbE IEEE 802.3cc (25GBASE-LR)

Performance		
	Maximum Video Resolutions	4096 x 2160 60p *All standard desktop GPU resolutions supported
	Bit Depth and Color Space	• YCbCr 4:2:0 10-bit[1] and 8-bit[2] • YCbCr 4:2:2 10-bit • RGB 4:4:4 8-bit • SDR/HDR[3]
Video and Audio Processing		
	Video Scaling	High Quality multi-tap 10-bit Up/Down Scaler
	Video Deinterlacing	Yes
	Color Space Conversion	Yes
	HDCP Support[4]	Yes
Encoding formats		
	Video[5]	• Uncompressed; HD 3 Gbps, 4K 12 Gbps • Colibri 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		
	Network Standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet
	IP Addressing	• IPv4 • IPv6[6] • 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	1.70 lbs / 770 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

Hardware and Software		
	Hardware Included	ConvertIP SRST appliance
	Optional Hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA)
	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.

Contact Matrox Video

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