

# 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	<ul style="list-style-type: none"> <li>Standalone appliance</li> <li>Rack-mountable: 1U, 1/2 rack (horizontal)</li> </ul>
Connectivity	
Video Input	HDBaseT™ v3
Audio Input/Output	Up to 8 channels of audio embedded
Network Connector	<ul style="list-style-type: none"> <li>1x RJ45 LAN for Media/Control</li> <li>1x SFP28 cage for Media/Control                             <ul style="list-style-type: none"> <li>10 GbE IEEE 802.3ae (10GBASE-SR/LR)</li> <li>25 GbE IEEE 802.3by (25GBASE-SR/CR/CR-S)</li> <li>25 GbE IEEE 802.3cc (25GBASE-LR)</li> </ul> </li> </ul>
Performance	
Maximum Video Resolutions	4096 x 2160 60p *All standard desktop GPU resolutions supported
Bit Depth and Color Space	<ul style="list-style-type: none"> <li>YCbCr 4:2:0 10-bit<sup>1</sup> and 8-bit<sup>2</sup></li> <li>YCbCr 4:2:2 10-bit</li> <li>RGB 4:4:4 8-bit</li> <li>SDR/HDR<sup>3</sup></li> </ul>
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 <sup>4</sup>	<ul style="list-style-type: none"> <li>Uncompressed; HD 3 Gbps, 4K 12 Gbps</li> <li>ProAV 4:4:4 8-bit codec; HD 200 Mbps, 4K 800 Mbps</li> <li><b>Optional:</b> JPEG-XS 4:2:2 10-bit; HD 400 Mbps, 4K 1.6 Gbps,</li> </ul>
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	<ul style="list-style-type: none"> <li>IPv4</li> <li>IPv6<sup>5</sup></li> <li>DHCP (default) and static IP</li> </ul>
Supported Protocols	<ul style="list-style-type: none"> <li>SMPTE ST 2110 (-10, -20, -21, -22, -30, -31, and -40)</li> <li>SMPTE ST 2059-2</li> <li>SMPTE ST 2022-7</li> </ul>
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	<ul style="list-style-type: none"> <li>• Device: Input: 12 volts, max 18 Watts</li> <li>• PoE+</li> <li>• Optional PSU (sold separately) <ul style="list-style-type: none"> <li>• Line Voltage: 100-240 V a.c., 0.5A</li> <li>• Frequency: 50-60 Hz</li> <li>• Input: IEC320-C14</li> <li>• Output: DIN4 locking power connector</li> </ul> </li> </ul>
Hardware and Software	
Hardware Included	ConvertIP SRST appliance
Optional Hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-SERV)
Accessories (sold separately)	<ul style="list-style-type: none"> <li>• ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)<sup>6</sup></li> <li>• Rackmount kit<sup>7</sup> (Part #: RMK-19TR-A)</li> <li>• Angled bracket kit (Part #: RMK-6BRKT-A)</li> <li>• Secure cable solution for HDMI (Part #: SK-SLND-4)</li> <li>• NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)</li> </ul>
Software	<ul style="list-style-type: none"> <li>• Matrox ConvertIP Command Center (Web UI)</li> <li>• Matrox ConvertIP Manager (Microsoft® Windows® 10)</li> </ul>
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	<ul style="list-style-type: none"> <li>• CE (EU)</li> <li>• FCC (USA)</li> <li>• ICES-003 (Canada)</li> <li>• KC (Korea)</li> <li>• RCM (Aus/NZ)</li> </ul>
Environmental Compliance	<ul style="list-style-type: none"> <li>• China RoHS</li> <li>• EU RoHS</li> <li>• REACH</li> </ul>
Warranty	Three-year limited warranty with free online or telephone support

1. 2. 3. 5. Available in a future software update.

4. Bitrates will vary according to resolution.

6. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.

7. Can fit up to two ConvertIP units in a 1RU space.



## Contact Matrox

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