

# 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 <sup>4</sup>	Yes
Encoding formats	
Video <sup>5</sup>	Uncompressed: <ul style="list-style-type: none"> <li>HD 3 Gbps and 4K 12 Gbps</li> </ul> Default compressed bitrates: 200 Mbps for HD content, 820 Mbps for 4K content <ul style="list-style-type: none"> <li>Colibri codec included. 4:2:2 10-bit YUV and 4:4:4 8-bit RGB, 100 to 2000 Mbps</li> <li>JPEG-XS codec upgrade required.<sup>6,10</sup> 4:2:2 10-bit YUV and 4:4:4 8-bit RGB, 100 to 2000 Mbps</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>7</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

	<b>Cooling</b>	Fanless
	<b>Power</b>	<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>
<b>Hardware and Software</b>		
	<b>Hardware Included</b>	ConvertIP SRST appliance
	<b>Optional Hardware</b>	ConductIP NMOS-based routing solution (Part #: CDCTIP-MRA)
	<b>Accessories (sold separately)</b>	<ul style="list-style-type: none"> <li>• ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)<sup>8</sup></li> <li>• Rackmount kit<sup>9</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>
	<b>Software</b>	<ul style="list-style-type: none"> <li>• Matrox ConvertIP Command Center (Web UI)</li> <li>• Matrox ConvertIP Manager (Microsoft® Windows® 10)</li> </ul>
	<b>Optional software</b>	JPEG-XS codec license <sup>6</sup>
<b>Environmental</b>		
	<b>Operating Conditions</b>	Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
	<b>Storage Conditions</b>	Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing
<b>General</b>		
	<b>EMC/EMI Device Class</b>	Class A
	<b>EMC/EMI Compliance</b>	<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>
	<b>Environmental Compliance</b>	<ul style="list-style-type: none"> <li>• China RoHS</li> <li>• EU RoHS</li> <li>• REACH</li> </ul>
	<b>Warranty</b>	Three-year limited warranty with free online or telephone support

1. 2. 3. 4. 7. Available in a future software update.

5. Bitrates will vary according to resolution.

6. JPEG-XS is only supported on 1G/2.5G RJ45 networks.

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

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

10. For more information, contact your Matrox Video representative.

## Contact Matrox Video

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