Matrox[®] ConvertIP[™] DRS

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

Matrox ConvertIP DRS is a compact, standalone ST 2110 and IPMX transmitter/receiver device. Featuring 12G-SDI, genlock, and three RJ45 ports on a singe device, ConvertIP DRS 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 | t | |
|---------|-------------------------------------|--|
| | Part Number | CIP-DRS |
| | Form Factor | Standalone appliance Rack-mountable: 1U, 1/2 rack (horizontal) |
| Connec | ctivity | |
| | Video Input | Tx mode: 12G SDI Rx Mode: No input |
| | Video Input Resolutions | HD and 4K broadcast resolutions |
| | Video Outputs | Tx mode: No output Rx mode: 12G SDI |
| | Video Output Resolutions | HD and 4K broadcast resolutions |
| | Genlock | Bi-Level and Tri-Level input support |
| | VANC ancillary data processing | Yes ¹ |
| | Audio Input/Output | Up to 16 channels of audio embedded in SDI output 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 | Yes ² |
| | Control and Management | Web browser-based UI, standalone utility |
| Perform | nance | |
| | Maximum Video Resolutions | 4096 x 2160 60p |
| | Bit Depth and Color Space | YCbCr 4:2:0 10-bit ³ and 8-bit ⁴ YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR ⁵ |
| Video a | and Audio Processing | |
| | Video Scaling | High Quality multi-tap 10-bit Up/Down Scaler |
| | Video Deinterlacing | Yes |
| | Color Space Conversion | Yes |
| Encodir | ng formats | |
| | Video ⁶ | 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) |
| Networ | 'n | |
| | Network Standard | RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet |
| | IP Addressing | IPv4 IPv6 ⁷ 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 | 1.47lbs / 665g |
| 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 DRS 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)[®] Rackmount kti[#] (Part #: RMK-19TR-A) Angled bracket kti (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 |

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



Contact Matrox

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