Matrox® **ConductIP**

Transitioning your equipment installation to IP does not have to be expensive or complicated. With Matrox® ConductIP, you can discover, monitor, and route any AMWA NMOS-enabled SMPTE ST 2110 or IPMX-ready device or signal. ConductIP is available as a web server-based application packaged in a small-form factor appliance, or as a software-only option. ConductIP gives you a real-time, comprehensive view of all media content on your IP network while allowing you to organize devices based on your unique setup. Designed to simplify content distribution in AV networks of any size, ConductIP enables you to manage video, audio, and ancillary data streams, whether they come from native IP devices or are converted from your existing broadcast and ProAV equipment.

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Matrox® **ConductIP** – Technical specifications

Product	ConductIP
Part number	CDCTIP-MRA
Form factor	• Standalone appliance • Rack mountable: 1U, ½ rack (horizontal)

Connectivity

Video output	• 2 x HDMI outputs (only HDMI out 1 is enabled for viewing of console)
Network connector	• 1 x RJ45 1000 Mbps (1GbE LAN)
USB	• 2 x USB3.2, 2 x USB2.0. Suitable for mouse and keyboard operations as well as device recovery operations

Performance

NMOS Device Detection	• Unlimited
Number of simultaneous routing operations	300 simultaneous routing operations have been tested successfully. The more stream-switching operations that are requested simultaneously, the longer it takes to complete the full sequence. While a large simultaneous switch request may execute quickly, it may take upwards of 10 seconds for Web UI of ConductIP to reflect the new status of each connection.

USER Interface

Web UI	• Validated for use with Google Chrome web browsers
Direct console output	• User can directly connect screen, mouse, and keyboard to device for local control

Network

IP addressing	• IPv4, IPv6[1], DHCP (default) and static IP
Discovery and registration API	• NMOS IS-04 v1.2 and v1.3. Registration server Included. Third party registration server supported
Connection Management API	• NMOS IS-05 v1.0 and v1.1
IP Protocol	• HTTPS over TCP

Physical

Product dimensions	• L: 210 mm (8.27 in) x W: 175 mm (6.89 in) x H: 42 mm (1.65 in)
Unit weight	• Device only ~1.5 kg (3.3 lbs) • Device with accessories and packaging ~3 kg (6.6 lbs)
Power	• 19 volts DC-In. 4.74 A (90W) max load

Hardware and Software

Hardware included	• ConductIP MRA appliance, 19V power Adapter
Licensing options	ConductIP licensing options are sold separately from ConductIP appliance. • They can be installed at any time after the installation of the ConductIP base unit • Licenses are categorized by usage period as well as video port usage volume • A video port is defined as a single NMOS video sender OR video receiver • ConductIP can only support one license at a time (they are not additive). It is not possible to purchase multiple licenses to attain a precise volume node number • Audio/ANC data senders or receivers are not counted as part of licensing options License part numbers: See table below. The license option part numbers reflect the number of video ports and usage term in years (i.e., CDCTIPL-50-3 is a license for the routing between 50 video ports for a term of 3 years). The CDCTIP-MRA appliance comes pre-installed with an 8-port, 1-year license. Pre-installed license is activated upon creation of the first admin account.

License part numbers:

CDCTIPL-8-1	CDCTIPL-20-1	CDCTIPL-50-1	CDCTIPL-125-1	CDCTIPL-325-1
CDCTIPL-8-2	CDCTIPL-20-2	CDCTIPL-50-2	CDCTIPL-125-2	CDCTIPL-325-2
CDCTIPL-8-3	CDCTIPL-20-3	CDCTIPL-50-3	CDCTIPL-125-3	CDCTIPL-325-3

Environmental

Operating conditions	• 0 to 40 degrees Celsius
Storage conditions	• Temperature: -40 to 60 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	• Two-year limited warranty with complimentary online or telephone support

1. *Future release.*