

Technical specifications

Connectivity

Network

- 2x SFP28 cages for ST 2110 interface
 - 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)
- Dedicated RJ-45 management network interface (1GbE)

Supported media standards & specifications

- SMPTE ST 2110 (-10, -20, -21, -30, -31¹ and -40), ST 2022-7, and ST 2059-2
- AMWA NMOS IS-04 and IS-05

Control and management

- Web-based interface compatible with any browser, including mobile devices
- REST-based API for easy automation¹

Signal Generator

Video

- According to SMPTE ST 2110-20 and ST 2110-21
 - 3840x2160p @ 50, 59.94 and 60 Hz
 - 1920x1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 Hz
 - 1920x1080i @ 25, 29.97M and 30
 - 1280x720p @ 50, 59.94 and 60 Hz
- ITU-R BT.709 and BT.2020

Audio

- According to SMPTE ST 2110-30
 - ST 2110-30 Classes A, B & C
 - 1 to 64 channels per flow
 - PCM 24bit @ 48 kHz
 - Packet times of 125 µs or 1ms

Ancillary data

- According to SMPTE ST 2110-40
 - ATC
 - AFD and bar data

PTP

- ST 2059-2 compliant
- Supported on each SFP for redundancy

Adjustable Parameters

- User presets for SMPTE ST 2110-21 sender types: N (Narrow), NL (Narrow Linear), W (Wide), or custom
- Custom packet timing for granular control of number of packets present in the Network Compatibility Model (up to and beyond CMAX) and Virtual Receiver Buffer Model (up to and beyond VRXFULL)
- User-controllable RTP timestamp offset per flow

Capture and Analysis

PCAP recording¹

- Aggregated capture throughput of up to 28Gbps with hardware-based timestamping
- Available on both ST 2110 interfaces (primary, redundant or both simultaneously)
- Input routing of sources through:
 - Manual settings (IGMP)
 - NMOS IS-05 control
 - SDN control
- Auto detection of ST 2110 flows on inputs

EBU Live IP Software Toolkit (LIST[®])

- Open source ST 2110 analysis toolkit
- Deep packet inspection for ST 2110 specification compliance
- Pre-installed for convenience

Physical and Power

Product dimensions (depth x width x height)

- 22.73 x 18.97 x 1.68 in (57.75 x 48.2 x 4.28 cm)
- Rack-mountable 1RU

Product weight

- 27.38 lbs. (12.42 kg)

Operating conditions

- 10–35°C (50°F–95°F), 20% to 80% (non-condensing)

Power supply

- AC Line voltage: 100-240 VAC
- AC Frequency: 50-60 Hz
- AC input current (low/high): 3.7A/ 7.4 A
- Wattage: 550 W

Warranty

- Two-year limited warranty

Ordering Information

- MTXVero
 - Matrox Vero appliance with ST 2110 signal generator, PCAP capture, and stream analysis.
 - Includes racking kit and power cords (US, EUR, UK)
- MTXVERO-SP-1
 - 1 year service plan for VERO software support and release update

1. This feature will be available in a future release.

Contact Matrox

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