Video Formats

- (HD) 1920x1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920x1080i 50, 59.94
- (HD) 1280x720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Video Quality

- 10-bit, 4:2:2, uncompressed

Media Transport Interfaces

- SMPTE ST 2110 (-10, -20, -21, -30)
- 2x SFP+ Cages - SFPs not included
- Recommended 10 GigE SFP+ modules:
- Arista Networks SFP-10G-SR Compatible 10GBASE-SR
- Fiberstore SFP-10GSR-85 10G SFP+ 850nm
- Finisar FTLX1471D3BCL (for single mode 1310nm)
- Mellanox MFM1T02A-SR 850nm 10G

Note: Maximum supported SFP+ power is 500 mW per SFP+ cage

Video Input Digital

- 1x HDMI Standard Type A connector
- HDMI v1.4b 24/30-bits per pixel
- Up to 1080 60p, 4:2:2, 10-bit, YCbCr/RGB

Audio Input Digital

- Up to 8-Channel, HDMI embedded audio, 24-bit per channel, 48 kHz synchronous

Audio Input Analog

- 2x RCA analog audio
- Levels at -10 dBu (nominal)

Video Output IP

- SMPTE ST 2110
- Single video channel output
- SMPTE ST 2022-7 dual stream output for hitless switching
- Tx support for Narrow, Gapped Mode

Audio Output IP

- SMPTE ST 2110
- Up to 8 channels audio, 24-bit per channel, 48 kHz synchronous
- 1 ms or 125 µs packet interval
- SMPTE ST 2022-7 dual stream input for hitless switching

Reference

- 1x BNC
- Reference Out connector generates an analog/tri-level reference output synchronized to the PTP clock
- This can be used to ensure the baseband video arriving at the IP transmitter is properly timed

Discovery, Registration and Control

- NMOS Tx discovery and control according to standards IS-04 v1.2 and IS-05 v1.0
- Ember+ control (no discovery, control only)
- AJA REST API control (discovery via SSDP or MDNS)
- Supported over dedicated management Ethernet port and in-band over media ports

IP Clock

- PTP support compliant with PTP PTPv2 / IEEE 1588-2008
- SMPTE ST 2059-1 compliant

User Controls

- 1x RJ-45 for 10/100/1000 Base-T Ethernet
- Web and REST clients supported for remote network setup and configuration
- 1x USB 2.0 Mini-B connector
- AJA eMini-Setup supported for network setup and configuration via local desktop computer
- Web and REST configuration is also supported in-band over media ports

Size (w x d x h)

- 5.07" x 0.94" x 5.06" (128.78 x 23.88 x 128.52 mm)

Weight

- 0.6 lb (0.3 kg)

Power

- 5-20VDC Regulated, 13 Watts, Power supply required (DWP-U-R1 included with purchase)

Environment

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)