

Specifications • NAV 10E 501 (Continued)

Audio

Gain.....	Analog to analog: -6.5 dBU balanced, -12.5 dBU unbalanced HDMI to analog: -5.3 dBU balanced, -11.3 unbalanced
Frequency response	20 Hz to 20 kHz, ± 0.5 dB
THD + Noise.....	<0.1% @ 20 Hz to 20 kHz at nominal level
S/N.....	Analog to digital: >90 dB, at full scale output, unweighted Digital to analog: >90 dB, at maximum balanced output, unweighted Analog to analog: >90 dB, at maximum balanced output, unweighted
Crosstalk	≤ -80 dB @ 1 kHz, fully loaded
Stereo channel separation.....	>80 dB @ 1 kHz
Sampling rates.....	32, 44.1, 48 kHz
Bit depths	16, 20, 24 bit

Audio Input

Number/signal type	1 analog stereo, unbalanced or balanced 1 digital stereo, de-embedded from HDMI
Connectors.....	(1) 3.5 mm captive screw connector, 5 pole 1 female HDMI type A (shared with video input)
Supported formats.....	LPCM (2 channel), analog stereo input
Impedance	≥ 10 kohms unbalanced, ≥ 20 kohms balanced
Nominal level	+4 dBU, -10 dBV configurable
Maximum level	+21 dBU balanced, +15 dBU unbalanced
Gain adjustment range.....	Adjustable, -18 dB to +10 dB

NOTE: 0 dBU = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBU

Audio Output stream

Number/signal type	1 audio over IP LPCM 1 audio over IP AES67*
Connector.....	1 SFP+ connector (SM or MM)

NOTE: *AES67 specifications are compatible with the Extron DSPs.

Network interconnection (NAV)

Number/signal type	2 fiber optic
Connectors.....	(1) 10G SFP+ connector, 2 LC connectors
Termination	MDI (SFP+)
Ethernet standards	10 Gb Ethernet (802.3ae), 10GBase-LR (SFP+) SM, and 10GBase-SR (SFP+) MM
Protocols	
Streaming.....	SRTP (AES-128) on video, audio, and USB
Transport.....	Multicast UDP
All supported.....	DHCP, HTTPS, IGMPv2/v3, IPv4, PTPv2, QoS, SSH, TCP, UDP
Security	AES-256, 802.1X, Active Directory authentication
Signal transmission distance	
Singlemode.....	10 km (6.25 miles) with singlemode (SM) cables with 10GBASE-LR (SFP+)
Multimode	400 m (1312') with 50/125 μ m OM4 cables with 10GBase-SR (SFP+)

NOTE: Operating distance is approximate. These are typical maximum distances that may vary depending on factors such as fiber type, fiber bandwidth, connector splicing, losses, modal or chromatic dispersion, environmental factors, and kinks.

Nominal peak wavelength	850 nm for multimode, 1310 nm for singlemode
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Transmission power	
Singlemode	-5.2 dBm, minimum
Multimode	-2.8 dBm, minimum
Maximum receiver sensitivity	
Singlemode	-12.6 dBm, maximum
Multimode	-11.1 dBm, maximum
Optical loss budget	
Singlemode	7.4 dB, maximum
Multimode	8.3 dB, maximum

Network extension (EXT)

Connector	1 RJ-45 female
Termination	Auto-MDIX, TIA/EIA T568B
Ethernet standards	1 GbE (802.3ab), 10/100/1000 Base-T, half/full duplex with auto-detect
Signal transmission distance	330' (100 m) using CAT-5e/6/6a/7 cables

USB extension (USB)

USB device port — Host mode configuration (default mode)	
Number/signal type	1 USB 2.0 high speed
Connector	1 USB type C female
Power.....	N/A
Maximum built-in USB hubs	1
Minimum built-in USB hubs	0
Optional built-in USB hubs	1 (peripheral emulation enabled)
USB device port configuration — Device mode configuration	
Number/signal type	1 USB 2.0 high speed
Connector	1 USB type C female
Power.....	5V DC, 500mA (when in device mode)
Maximum built-in USB hubs	0
Minimum built-in USB hubs	0
Optional built-in USB hubs	0
Host support.....	xHCI (USB 3.0), EHCI (USB 2.0), OHCI/UHCI (USB 1.1)
Data rates	Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps)
Traffic types.....	Bulk, control, interrupt, and isochronous
Network switch hops	5 hops (typical)

NOTE: Network switch hop limitations may apply. Typical limit is up to five network switches.

Communications - external devices

Serial	
Quantity/type.....	1 bidirectional RS-232
Connector	(1) 3.5 mm captive screw connector, 5 pole (shared with IR port)
Baud rate and protocol.....	300 to 115200 baud (9600 baud = default) 8 (default) or 7 data bits 1 (default) or 2 stop bits no parity (default), even or odd parity
Pin configuration.....	Tx, Rx, and Gnd
IR control	
Quantity/type.....	1 TTL level (0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
Connector	(1) 3.5 mm captive screw connector, 5-pole (shared with RS-232)
Pin configuration.....	S = signal and G = Gnd
IR output carrier frequency	30 kHz to 300 kHz

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Contact closure

Quantity/type.....	1 contact closure input
Connector	(1) 3.5 mm captive screw connector, 2 pole (shared with tally)
Input voltage range.....	0 to 5 VDC, clamped at +5.1 VDC
Pin configuration.....	C = contact input (+5 VDC) (Ground is supplied by HDMI connector on an Extron Show-Me cable)

Tally port

Quantity/type.....	1 tally output
Connector	(1) 3.5 mm captive screw connector, 2 pole (shared with contact closure)
Pin configuration.....	T = tally output (GND) (+5 VDC is supplied by HDMI connector on an Extron Show-Me cable)

USB configuration port

Quantity/type.....	1 front panel USB mini-B
Standard	Ethernet over USB

General

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 2.0 A, 24 watts
Power consumption	
Device	23.6 watts
Device and power supply	28.5 watts
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +104 °F (0 to +40 °C) / 10% to 85%, noncondensing
Cooling	Fan, air flows from top to rear
Thermal dissipation	
Device	71.2 BTU/hr
Device and power supply	87.8 BTU/hr
Mounting	
Rack mount.....	Yes, with optional rack shelf
Furniture mount	Yes, with optional under desk mounting kit
Enclosure type	Metal
Enclosure.....	1.00" H x 8.75" W x 6.00" D (half rack wide) (25 mm H x 222 mm W x 152 mm D)
Product weight	1.5 lbs (0.68 kg)
Regulatory compliance.....	CE, c-UL UL,C-tick, FCC Class A, ICES, VCCI, Complies with the appropriate requirements of RoHS, WEEE
Product warranty	3 years parts and labor
Everlast power supply warranty.....	7 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at www.extron.com.

5815-D9