



# Specifications • NAV E 501 (Continued)

## Audio

Gain.....	Unbalanced output: 0 dB, balanced output: +6 dB
Frequency response .....	20 Hz to 20 kHz, $\pm 0.5$ dB
THD + Noise.....	<0.1% @ 20 Hz to 20 kHz at nominal level
S/N.....	>90 dB, at maximum output, balanced (unweighted)
Crosstalk .....	$\leq -80$ 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 audio
Impedance.....	$\geq 10$ kohms unbalanced, $\geq 20$ kohms balanced
Nominal level.....	+4 dBu, -10 dBV configurable
Maximum level.....	+21 dBu balanced, +15 dBV 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 AES 67*
Connector.....	1 RJ-45 connector

**NOTE:** \*AES 67 specifications are compatible with the Extron DSPs.

## Network interconnection (NAV)

Connector type.....	1 RJ-45
Ethernet standards .....	1GbE (802.3ab), 10/100/1000 Base-T, half/full duplex with autodetect
Termination .....	Auto-MDIX, TIA/EIA T568B
Power over Ethernet (PoE).....	PoE power rating TBD
Protocols	
Streaming.....	SRTP (AES-128) on video and audio
Transport.....	Multicast UDP
All supported.....	DHCP, HTTPS, IGMPv2/v3, IPv4, PTPv2, QoS, SNMP (v2c), SSH, TCP, UDP, VLAN tagging
Security .....	AES-256, 802.1x, Active Directory authentication
Signal transmission distance.....	330' (100 m) using CAT 5e/6/6a/7 cables

## Network extension (EXT)

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

# Specifications • NAV E 501 (Continued)

## USB extension (USB)

Quantity/type .....	1 USB type-C port
Power .....	900 mA (max)
Configuration .....	Host (default) or hub
Host support.....	xHCI (USB 3.0), EHCI (USB 2.0), OHCI/UHCI
Data rates .....	Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps)
Traffic types.....	Bulk, control, interrupt, and isochronous
Hub usage.....	Min: 0 (host/per emulation off) Max: 2 (all emulation on)

**NOTE:** Hub usage is dependent on the system configuration.

Network switch hops .....	5 hops (typical)
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**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

CEC control .....	1 HDMI type A loop through connector
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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

# Specifications • NAV E 501 (Continued)

## General

Power supply ..... External  
Input: 100-240 VAC, 50-60 Hz  
Output: TBD

**NOTE:** Each 1G endpoint can be powered either locally by an external power supply or remotely using optional PoE.

Power consumption  
Device ..... TBD watts nominal, TBD watts max.  
Device and power supply ..... TBD watts nominal, TBD watts max.  
PoE ..... TBD watts  
Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing  
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 85%, noncondensing  
Cooling ..... Fan, air flows from top to rear  
Thermal dissipation  
Device ..... TBD BTU/hr  
Device and power supply ..... TBD 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 ..... TBD lbs (TBD 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](http://www.extron.com).

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