

Extron

Specifications

NAV E 111 DTP3

TRUE 4K specification

Max. 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max. Bit Depth per Color
4096x2160 at 60 Hz ¹	4:4:4	8 bit
3840x2160 at 60 Hz		
4096x2160 at 30 Hz		10 bit
3840x2160 at 30 Hz		
4096x2160 at 60 Hz	4:2:0	
3840x2160 at 60 Hz		

Frame rate² 24, 25, 30, 50, or 60 fps

Chroma sampling² 4:4:4, 4:2:2, or 4:2:0

Color bit depth² 8 or 10 bits per color

Signal Type DVI v1.0, HDMI v1.4 and v2.0, HDCP v1.4 and v2.3

Max. video data rate 18 Gbps (6 Gbps per color)

NOTE: ¹4096 x 2160 @ 50-60 Hz is available only for HDMI connectors.

NOTE: ²Subject to the maximum data rate limit. Use our calculator at www.extron.com/8KdataRate to determine video parameters supported by this data rate.

Video input and loop through

NOTE: *Appropriate DVI-D to HDMI or DisplayPort to HDMI cables or adapters are required for DVI or DisplayPort signal loop-through.

Number/signal type 1 DTP3

1 digital HDMI video (loop through)

Connectors 1 female RJ-45 (input)

1 female HDMI type A (loop through)

Resolution range Up to 4K (4096x2160) @ 60 Hz

Standards DVI v1.0, HDMI v1.4 and v2.0, HDCP v1.4/v2.3

Video processing

Digital sampling 8 or 10 bits per color; 600 MHz pixel clock maximum

Compression PURE3®

Bit rate 250 Mbps to 900 Mbps

Latency <1 frame (encode/decode)**

NOTE: **Indicates minimum end-to-end latency. Network and video processing dependencies may apply.

Specifications • NAV E 111 DTP3 (Continued)

Video output stream

Number/signal type	1 PURE3 digital video over IP
Connector	1 RJ-45 connector

Audio

Sampling rates	32, 44.1, 48 kHz
Bit depths	16, 20, 24 bit

Audio input

Number/signal type	1 DTP3 compatible (de-embedded HDMI - PCM only or remote unbalanced analog)
Connectors	1 RJ-45 female (shared with video input)
Supported formats	LPCM (2 channel), analog stereo audio

Audio output stream

Number/signal type	1 audio over IP LPCM
	1 audio over IP AES67*
Connector	1 RJ-45 connector

NOTE: *AES67 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
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

Communications - external devices

Serial	
Quantity/type	1 bidirectional RS-232
Connector	1 RJ-45 DTP pass-through SPD port (shared with IR and CEC)
Baud rates	300 to 115200 baud (9600 = default)
Protocol	8 (default) or 7 data bits
	1 (default) or 2 stop bit
	no parity (default), even or odd parity
IR control	
Quantity/type	1 unidirectional infrared
Connector	1 RJ-45 DTP pass-through SPD port (shared with RS-232 and CEC)
IR output carrier frequency	30 kHz to 60 kHz
USB configuration port	
Quantity/type	1 front panel USB mini-B
Standard	Ethernet over USB

Specifications • NAV E 111 DTP3 (Continued)

General

Power supply	Internal
	Input: 100-240 VAC, 50-60 Hz
	Output: 12 VDC, 4.0A, 48 watts
Power consumption	
Device and power supply	50.3 watts
Ambient 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 front to rear
Thermal dissipation	
Device and power supply	105.7 BTU/hour
Mounting	
Rack mount	Yes, with optional rack shelf
Furniture mount	Yes, with optional under desk mounting kit
Enclosure type	Metal
Enclosure	1.66" H x 8.75" W x 10.5" D (half rack wide)
	(42 mm H x 222 mm W x 267 mm D)
Product weight	2.62 lbs (1.2 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.

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