

NAV E 111 DTP3

1G PRO AV OVER IP ENCODER WITH DTP3 INPUT



The **NAV E 111 DTP3** is a Pro AV over IP encoder that integrates DTP3 and DTP® transmitters with the groundbreaking performance of the NAV® Pro AV over IP System. It receives video, audio, and control signals from DTP3 or DTP transmitters over up to 330 ft of CAT6A cable and streams 4K/60 4:4:4 visually lossless video and audio with ultra-low latency over a standard 1 Gbps Ethernet interface. It is capable of remote powering DTP3 and DTP transmitters in a variety of architectural form factors such as MK, EU, Flex55, and decorator-style with HDMI and USB-C DisplayPort alt-mode video inputs with audio and control. Support for embedded digital audio, analog, and AES67 audio over IP facilitates flexible integration with Extron DSPs or other IP-enabled audio components.

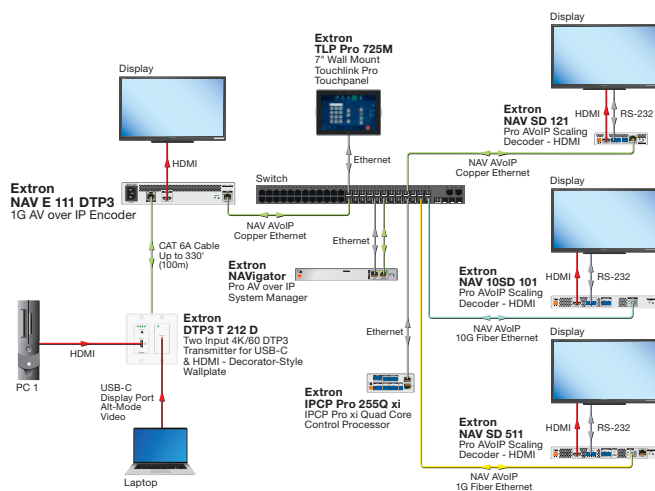
- ▶ Leverages the flexibility of DTP3 and DTP transmitters with the groundbreaking performance of NAV Pro AV over IP for limitless range and scalability
- ▶ Supports embedded digital audio, analog and AES67 audio for flexible integration with Extron DSPs or 3rd party IP audio
- ▶ Everlast® power supply enables reliable power delivery to DTP3 or DTP transmitters over twisted pair
- ▶ PURE3® codec delivers improved network resiliency delivering visually lossless 4K/60 4:4:4 video with ultra-low latency over a 1 Gigabit interface
- ▶ AES67 in or out enables flexible audio designs over IP networks
- ▶ HDMI 4K/60 4:4:4 Loop Output for local display or confidence monitoring

The **NAV E 111 DTP3** is a Pro AV over IP encoder that receives video, audio, and control signals from Extron DTP3 or DTP® transmitters and utilizes the Extron-patented PURE3® codec to deliver groundbreaking performance with real time, visually lossless video at resolutions up to 4K @ 60 Hz with 4:4:4 chroma sampling and ultra low latency. Adjustable bitrates facilitate transmission over 1 Gbps networks and compatibility with NAV 1 and 10 Gbps scaling decoders. Support for embedded digital, analog, and expanded AES67 audio over IP facilitate flexible integration with Extron DSPs or other IP-enabled audio components.

KEY FEATURES

- ▶ Receives Extron DTP3 or DTP transmitter video, audio, and control signals over twisted pair, then encodes and streams over standard Gigabit Ethernet IP networks to one or many NAV® decoders
- ▶ Reliably powers DTP3 or DTP transmitters over the same twisted pair cable
- ▶ Digital, analog, and AES67 audio support for flexible designs
- ▶ HDMI loop-thru for local display or confidence monitoring
- ▶ PURE3® codec capable of lossless video and ultra-low latency
- ▶ PURE3 Intelligent Selective Streaming delivers efficient bitrates
- ▶ Secure Real Time Transport Protocol for enhanced security with encrypted streaming
- ▶ 802.1X port-based Network Access Control
- ▶ Active Directory® facilitates access management

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION

Max 4K Capabilities		
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz	4:4:4	8 bit
3840 x 2160 at 60 Hz		10 bit
4096 x 2160 at 30 Hz		
3840 x 2160 at 30 Hz		
4096 x 2160 at 60 Hz	4:2:0	
3840 x 2160 at 60 Hz		
Frame rate ²	24, 25, 30, 50, or 60 fps	
Chroma sampling ²	4:4:4, 4:2:2, or 4:2:0	
Color bit depth ²	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: ¹ 4096 x 2160 @ 50-60 Hz is available only for HDMI connectors.		
NOTE: ² Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdata to determine video parameters supported by this data rate.		

VIDEO INPUT AND LOOP THROUGH

Connectors	1 female RJ-45 (input) 1 female HDMI type A (loop through)
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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)**

AUDIO OUTPUT STREAM

Number/signal type	1 audio over IP LPCM
	1 audio over IP AES67*

NETWORK INTERCONNECTION (NAV)

Ethernet standards	1GbE (802.3ab), 10/100/1000 Base-T, half/full duplex with autodetect
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Protocols	
Streaming	S RTP (AES-128) on video and audio
Transport	Multicast UDP
Security	AES-256, 802.1X, Active Directory authentication

GENERAL

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
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)
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

Model	Version Description	Part number
NAV E 111 DTP3	1G Pro AV over IP Encoder with DTP3	60-1525-16

For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.