

# N3221

H.264 Compressed Video over IP Decoder



## Video

<b>Signal Types</b>	<b>Input</b>	Network video over Ethernet via RJ45
	<b>Output</b>	HDMI, DVI-D
<b>Formats</b>		DVI, HDMI (through adapter), HDCP content protection support
<b>Input Resolutions</b>	<b>HDMI and DVI (Progressive)</b>	Matched to inputs or scaled to 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1080@59.94Hz (1080p59.94), 720x480@59.94Hz (480p59.94), 1280x720@59.94Hz (720p59.94)

## Audio

<b>Signal Types</b>	<b>Input</b>	Network video over Ethernet via RJ45
	<b>Output</b>	Embedded audio on DVI-D or HDMI (through adapter)
<b>Formats</b>	<b>HDMI</b>	Stereo 2-channel
	<b>Analog</b>	Stereo 2-channel
<b>Digital-To-Analog Conversion</b>		16-bit 32 kHz, 44.1 kHz and 48 kHz

## Latency

<b>720p</b>	60 ms
<b>1080p</b>	60 ms

*Note: To calculate an end-to-end latency value, add the given Decoder latency (shown above) to your Encoder's latency (which is provided in the Encoder's Specifications sheet).*

## Communications

<b>Ethernet</b>	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP, Auto IP, and Static IP
<b>HDMI</b>	HDCP, EDID management
<b>Network Stream</b>	A/V Compression: H.264 video, AAC audio Network Standards: MPEG-TS, RTP, RTSP, HTTP-live

## Connectors

<b>PWR 12VDC @ 2.0A</b>	One 12 Volt DC power input.
<b>P0 POE</b>	8-wire RJ45 female. 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port. Provides both the network connection and the power to the Encoders and Decoders. See the section <i>Power Requirements</i> on page 3 for more information.
<b>P1</b>	8-wire RJ45 female. 10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch port.
<b>IR</b>	2-pin terminal Phoenix connector. Provides Infrared (IR) output only (33-60 kHz). Emitter may be necessary (not included).
<b>RS232</b>	3-pin terminal Phoenix connector which provides a serial control interface. Full duplex communication. Available terminal speed settings: 9600-115200 baud rate.
<b>AUDIO</b>	5-pin terminal Phoenix connector which provides user-selectable balanced/unbalanced input. Dedicated audio output.
<b>DVI-D OUTPUT</b>	DVI-D female; HDMI/DVI digital video/audio output. Allows for video and embedded digital audio output.

## LEDs and Buttons

### FRONT PANEL

<b>RESET button</b>	Recessed pushbutton. Press to initiate a 'warm restart' causing the processor to reset, but not lose power. A reset does NOT affect the current settings.
<b>ID button</b>	Recessed pushbutton. Press to send a notification out on the network to identify the unit (the notification causes a pop-up dialog in N-Able and N-Command).
<b>POWER LED</b>	On solid (green) when operating power is supplied (via PoE or local power supply). This activity is also shown by the <b>PWR</b> LED on the rear panel.
<b>STATUS LED</b>	On flashing (green) when there is software activity. This activity is also shown by the <b>STAT</b> LED on the rear panel.

### REAR PANEL

<b>PWR LED</b>	Same as <b>POWER</b> LED described above.
<b>DVI LED</b>	On (green) when a DVI output connection exists.
<b>STAT LED</b>	Same as <b>STATUS</b> LED described above.
<b>STRM LED</b>	On (green) when the unit is streaming video.

## Power Requirements

<b>Power Supply</b>	2.0 Amp @ 12 Volts DC; 100-240 Volts AC power supply; SVSi part number N9312.
<b>Power over Ethernet (PoE)</b>	Can be powered via a PoE switch or other equipment with a PoE source. Conforms to IEEE 802.3af Class 3 (802.3at Type 1).

*Note: In order for the unit to receive Power over Ethernet (PoE), it must be connected to a switch or other equipment that has a PoE PSE (Power Sourcing Equipment) port. Warning: Do not run wiring that is connected to a PoE PSE port outside of the building where the PSE resides. It is for intra-building use only. PoE does not pass through the daisy chain (P1) port.*

## Physical

<b>Mounting Options</b>	Stand alone, surface mount, wall mount, or rack mount.*
<b>Environmental</b>	<b>Temperature</b> 32° to 104°F (0° to 40°C)
	<b>Humidity</b> 10% to 90% RH (non-condensing)
	<b>Heat Dissipation</b> Up to ~44 BTU/Hr
<b>Dimensions</b>	<b>Height</b> 1.05 inches (2.67 cm)
	<b>Width</b> 7.888 inches (20.04 cm)
	<b>Depth</b> 5 inches (12.7 cm)
<b>Weight</b>	1.54 lbs (0.7 kg)
<b>Compliance</b>	FCC, CE, and NTRL


*\*Mounting wings (SVSi part number N9101) required for surface and wall mounting. Rack shelf (SVSi part number N9102) or card cage (SVSi part number N9206) required for rack mounting. Shelf accommodates two side-by-side N-Series encoders and decoders. Card cage accommodates up to six N-Series encoder and decoder cards (mix and match any series). Mounting accessories sold separately and are compatible with most N-Series devices. Contact SVSi sales representative or visit website for details.*

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