

Minimal Proprietary Compression Video Over IP N1115 MPC Decor Style Wallplate Encoder with KVM

NMX-ENC-N1115-WP-WH (FGN1115-WP-WH), White

NMX-ENC-N1115-WP-BL (FGN1115-WP-BL), Black



Overview

The N1000 Series Encoders and Decoders are an affordable local AV-over-IP switching solution that packetizes video into a minimally compressed IP format that provides excellent video quality at low latencies. This compression is perfect for point-to-point video distribution, small 2x1 switching applications, and larger switching applications (for example, 32x32), all using off-the-shelf layer-3 network switches.

The NMX-ENC-N1115-WP provides the excellent encoding capabilities of the NMX-ENC-N1133 in a 2-gang wallplate format. This encoder can be easily mounted in a wall, lectern, or floor box using a standard 2-gang US back box, and connected to power and Ethernet using only a single category cable.

Common Applications

- The NMX-ENC-N1115 is the perfect solution for any application and video matrix smaller than 32x32. Common applications include conference rooms, huddle spaces, and lecterns (inside or adjacent-to).

Features

- **Sub-Frame Latency** – Combined encode and decode latency of 10 ms at 60 fps.
- **Minimal Proprietary Compression (MPC)** – Visually lossless MPC algorithm applied applied to all resolutions
- **Wallplate Form Factor** – Fits conveniently into a 2-gang US back box for easy installation in a wall, floor, or lectern.
- **Power Over Ethernet (PoE)** – PoE eliminates the need for power supply
- **Unmatched Flexibility** – Build point-to-point links, simple 2x1 switches, or cost-effective matrices up to 32x32.
- **Separate Inputs** – Separate HDMI and VGA input connectors on the encoder

Specifications

VIDEO	
Digital Video Input	HDMI, DVI-D*, Dual-Mode DisplayPort (DP++)*
Analog Video Input	HD-15 VGA, Component*
Video Output	Network video over Ethernet via RJ45 port
Note	These signal types are supported through a passive adapter.
Formats	HDMI, DVI-D*, Dual-Mode DisplayPort (DP++)*, HDCP content protection support, RGBHV, YPbPr
Note	These signal types are supported through a passive adapter.
Progressive Input Resolutions	Supports most common HD up to 1920x1200.
Interlaced Input Resolutions	Supports 1080i60.
Analog Input Resolutions	Supports most common HD up to 1920x1200.
Note	Input resolutions supported @60Hz refresh rates are also supported @59.94Hz
Output Resolutions	Matched to inputs.
Analog-To-Digital Conversion	8-bit 165 MHz per each of three color channels
Color Space	4:2:2
Note	The N1115-WP Encoder does not accept Composite or S-Video (YC)

AUDIO	
Input Signal Types	Embedded audio on HDMI (DVI-D through adapter) or Analog Stereo
Output Signal Types	Ethernet
Analog Audio Formats	8ch PCM, Stereo 2-channel
Analog-To-Digital Conversion	16-bit 32 kHz, 44.1 kHz and 48 kHz

LATENCY	
Latency	10 ms at 60 fps
Bandwidth	840 Mb/s (varies with resolution)
Note:	<ul style="list-style-type: none"> •This is the combined encode plus decode latency. Total latency from source to screen will also include any network latency. •Scaling adds one frame of latency (17ms at 60fps)

COMMUNICATIONS	
Ethernet	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP, Auto IP, and Static IP
HDMI	HDCP, EDID management

PORTS	
+12V 2A	One 12 Volt DC power input
PO	8-wire RJ45 female 10/100/1000 Mbps 10/100/1000 Base-T auto-sensing gigabit Ethernet switch port Provides network connection, network AV video, and power to the Encoders and Decoders
HDMI IN	HDMI video input
VGA IN	DB15 analog input
USB IN - Host	USB-B host input
USB IN - Maintenance	USB-Mini maintenance input

CONTROLS AND INDICATORS – FRONT PANEL	
RESET button	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
POWER LED	On solid (green) when operating power is supplied (via PoE).
AUDIO LED	On (green) when audio is transmitting.
ANALOG VIDEO LEDs	On (green) when analog source is available and transmitting.
DIGITAL VIDEO LED	On (green) when video source is available and transmitting
HDCP LED	On (green) when the source is using HDCP
STREAM LED	On (green) when the unit is streaming video
STATUS LED	Flashing (green) when the unit is active.
LINK/ACT LED	Flashing (yellow) when network traffic is being sent or received.

POWER SUPPLY	
Power over Ethernet	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) Point-to-point applications between the encoder and a decoder requires a PoE injector to power the wallplate encoder.
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.

ENVIRONMENTAL	
Temperature (Operating)	32° to 104°F (0° to 40°C)
Temperature (Storage)	-22° to 158°F (-30° to 70°C)
Humidity (Operating)	10% to 90% RH (non-condensing)
Humidity (Storage)	0% to 90% RH (non-condensing)
Heat Dissipation	Up to ~26 BTU/Hr

GENERAL	
Dimensions (HWD)	4.06" x 3.5" x 2.25" (10.31 cm x 8.84 cm x 5.72 cm)
Weight	.75 lb (0.34 kg)
Airflow	Natural convection via vent openings on front, back, and top
Installation	<ul style="list-style-type: none"> •Mounts onto standard 2 gang US back boxes' •Mounts into standard décor style wallplates (not included)
Regulatory Compliance	FCC, CE, and NTRL
Recommended Accessories	<ul style="list-style-type: none"> •Compatible with NMX-ENC-N1222, NMX-ENC-N1233, NMX-ENC-N1512, and NMX-NVR-N6123 •PS-POE-AT-TC High-Power PoE Injector, 802.3AT Compliant FG423-84)

About AMX by HARMAN

Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 6.6.16. ©2016 Harman. All rights reserved. Specifications subject to change.

www.amx.com | +1.469.624.7400 | 800.222.0193