

N-Series Windowing Processor, 4x1

NMX-WP-N2510 (FGN2510)



Overview

The NMX-WP-N2510 Windowing Processor functions with the N-Series family of Video over IP Encoders and Decoders and are capable of handling multiple real-time HD streams with no video input or output connectors – using only a single network port. This is a fundamental shift in the way ProAV technologies have traditionally addressed windowing, but one that increases capability and flexibility while reducing installation and support costs.

The N-Series Windowing Processor is a 1RU rack-mount appliance that connects to an SVSI video over ip network and accepts any four video streams as input. Each input can be cropped, scaled, and positioned according to stored presets (such as quad, window-in-window, 3+1, etc) or in any user-defined configuration. The combined output video stream is then routed to one or more displays at HD 1080p or CG 1600×1200 resolution. It functions as a 4×1 windowing processor and can be stacked to give 7×1, 10×1, 13×1, 16×1, or higher capability. A single connection to the network provides access to all available SVSI video streams for window selection and for output of the combined stream.

Features

- **Retrofit Capable** – Easily retrofits to an existing SVSi video network.
- **Up to 4 Video Streams** – Accepts up to four independent video streams in addition to user-defined static backgrounds.
- **Built-In Web Interface** – Easy-to-use, built-in web browser interface provides pallets to manipulate each ‘window’ stream: Crop, scale and position in seconds.
- **4x1 Windowing + Stacking** – 4×1 windowing with stacking capability.
- **HD Output** – HD 1080p or CG 1600×1200 resolution output.
- **Audio Matrix Switch** – Built-in audio matrix switch allows selection of any audio stream for Windowing Processor output.

Specifications

VIDEO	
Signal Types	Network video over Ethernet via RJ45
Input Resolutions	Input Stream <ul style="list-style-type: none"> • Pixel clock between 27 MHz - 150 MHz • Minimum resolution of 720x480p • Maximum horizontal resolution of 1920 or a vertical resolution of 1080
Note	Input resolutions supported @60Hz refresh rates are also supported @59.94Hz.
Output Resolutions	HD Up to 1080p60.

LATENCY	
720p	112 ms
1080p	196 ms

PORTS	
Power	One 120 Volt AC power input
P0-P2	8-wire RJ45 female.10/100/1000 Mbps 10/100/1000Base-T auto-sensing gigabit Ethernet switch ports.
U0-U3	8-wire RJ45 female. 1000 Mbps 1000Base-T gigabit Ethernet switch ports. (Required for uncompressed video.)

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 unless you press and hold one minute (which will restore the unit to factory default settings).
POWER LED	On solid (green) when operating power is supplied (via local power supply).
STATUS LED	On flashing (green) when there is software activity.
Diagnostic LEDs	LEDs 0-3 on top row: Flashing (green) represents activity on corresponding window. LEDs 0-3 on bottom row: Solid (green) represents presence of video input stream on corresponding window. LEDs 4 on top and bottom rows: Used for advanced diagnostics. LED 5 on top row: Flashing green represents output video status/activity. LED 5 on bottom row: Flashing green represents software status/activity.

POWER SUPPLY	
Power Supply, Internal	1.0 Amp @ 120 Volts AC; 100-240 Volts AC power supply;

ENVIRONMENTAL	
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Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	Up to ~44 BTU/Hr

GENERAL	
Rack Mounting	Mounting ears included in shipment.
Dimensions (HWD)	1.75" x 17.25" x 12" (4.5 cm x 43.8 cm x 30.5 cm)
Weight	7.15 lbs (3.24 kg)
Regulatory Compliance	FCC, CE, and NTRL

NMX-WP-N2510 Front View



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1) LED Indicator Lights

NMX-WP-N2510 Rear View



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| 1) 12VDC Input (not needed with POE) | 6) P2 RJ-45 Network Connection |
| 2) Power Reset Button | 7) U0 RJ-45 Network Connection |
| 3) Diagnostic LED Indicator Lights | 8) U1 RJ-45 Network Connection |
| 4) P0 RJ-45 Network Connection | 9) U2 RJ-45 Network Connection |
| 5) P1 RJ-45 Network Connection | 10) U3 RJ-45 Network Connection |

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 10.6.15. ©2015 Harman. All rights reserved. Specifications subject to change.

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