

NETVIO

SIMPLIFYING COMPLEXITY

IP-SW-48P-10 48Port | 1Gb | AVoIP Network Switch



SafeGuard



END TO END SOLUTION

Netvio offers an unbeatable AVoIP solution with seamless integration of IP-SW series network switches, encoders, decoders, software, and end-user control applications. It is a single brand that covers all the bases, making installers' lives easier and more profitable.

EVERYTHING PoE

Netvio IP-SW Pre-Configured network switches are a game-changer for AVoIP installations. With built-in support for IEEE802af and IEEE802.3at standard Power over Ethernet (PoE) up to 900W, these switches eliminate the need for separate power supply units (PSUs) for Netvio encoders, decoders, and controllers.

ONCE TOUCH SET-UP

Netvio IP-SW network switches are the ultimate solution for AVoIP systems, offering unparalleled convenience with their never-seen-before one-click network configuration and setup feature. Installers can now effortlessly configure and set up the network with a simple click, eliminating the usual complexities associated with network configurations.

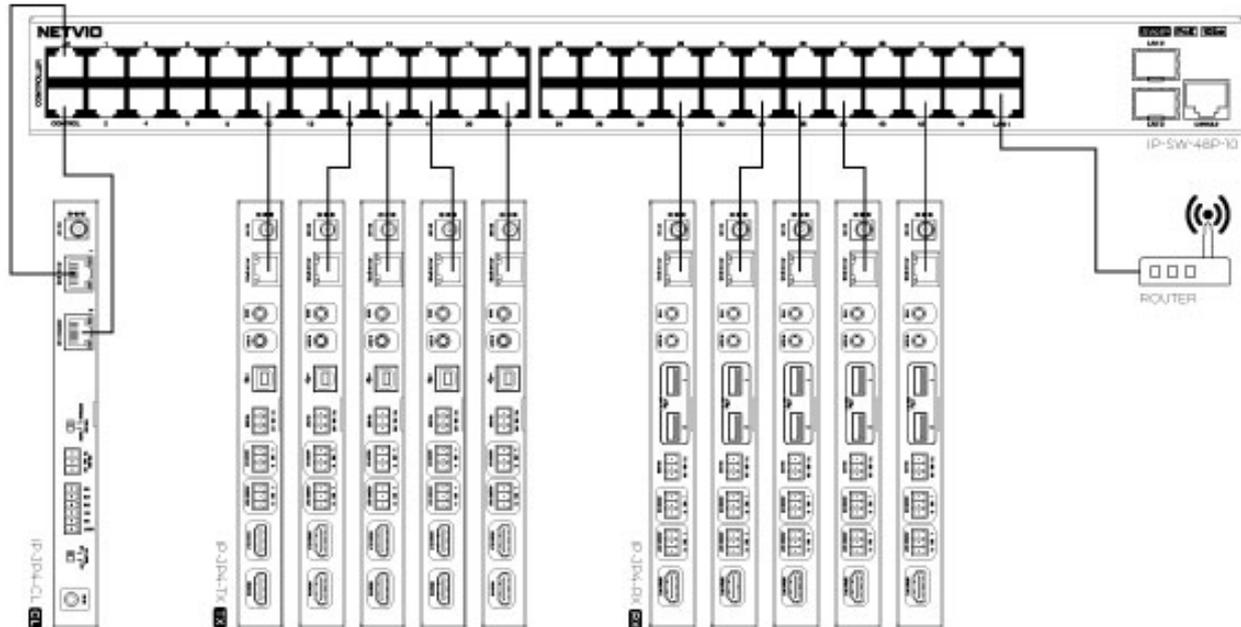
VIDEO WALL & PREVIEWS

While Netvio IP-SW network switches excel in their ease of setup, it does not compromise on advanced features. The IP-SW series switches are capable of supporting video walls up to 16x16. Additionally, these switches also support RTSP (Real-Time Streaming Protocol), enabling seamless streaming of audio and video content.

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Basic Wiring Diagram



NETWORK Specification

Switch

- 48Port 100/1000 Base-TX | Fully Configured for Netvio JP4 Series
- Configuration via Netvio360 utility including 'one touch' network switch configuration.
- Supports upto 45 end-point devices (encoders or decoders)
- 3 Ports reserved for IP-JP4-CL-10 connection (2no.) & primary LAN or Router (1no.)
- 1440W PoE Capable across all 48 Ports
- Max PoE per port: 30W (Netvio devices 12W each)

Delivery

- Separate multicast group IPs for audio, video, infrared, serial, CEC, USB.
- Link manager via single multicast group IP from query device - response via unicast.
- Default API channel via unicast, secured using SSH protocol.
- Preview, Unicast RTSP protocol for media management of audio/video.

End to End Latency

- HDMI: (HDMI passthrough) zero frames.
- HDMI path using compatible decoder = 1 video frame.
- HDMI path using compatible decoder with scaling = 2 video frames.
- Preview: ~1s (varies, no fixed clock) + decoder latency

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VIDEO Specification

Encoding Data Rate

- LAN Output: Max 850Mb/s
- Preview Output: Max: 20.48Mb/s + 2048Kb/s
- USB Throughput: Max ~60Mb/s

Max Video Transmission

- 3840x2160 60fps 8b 4:2:2
- IP Preview Main Output: 1920x1080 30fps
- IP Preview Sub Output: 960x580 30fps
- HDMI 3840x2160 60fps 8b 4:4:4

HDMI

- HDMI 2.0 compatible 6Gbps 600MHz TMDS (e.g. 3840x2160 60fps 4:4:4 8b) via HDMI Type A Receptacle.

Max Pixel Clock

- 300MHz / 300Mcsc

HDR Compatibility

- HDR10, HDR10+, Hybrid Log-Gamma, Dolby Vision

Scaler Function

- 4K to 2K 8b
- Modes include, pass-through (no scaling), Fixed 4K → 2K, Automatic

HDCP

- Inclusive up to 2.2

AUDIO Specification

Audio formats

- LPCM 2ch, LPCM 5.1, LPCM 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS Master

ENVIRONMENTAL Specification

Storage

- 20°C / +60°C | 20% - 90% RH

Operating

- 0°C / +40°C | 20% - 90% RH

COMMUNICATION & CONTROL Specification

HDMI

- CEC, DDC

USB

- Supports KVM mode for multiple USB devices (decoder) to USB host (encoder) data routing, device emulation and data contention mitigation.

RS232

- Supports serial generation and reception. Also supports serial routing from encoder --> decoder(s) and decoder --> encoder(s).

IR

- Supports Infrared generation and reception. Also supports IR routing from encoder --> decoder(s) and decoder --> encoder(s).

Drivers & Control

- Drivers available for control systems including C4, Crestron, RTi, Elan, Savant & Demopad
- Discovery, configure, optimise, design via Netvio 360 utility.
- Full spectrum AV control via FREE Netvio application for Apple & Android devices.

EDID

- Automatic, Onboard pre-sets, Copy sync (RX)

OTHER INFORMATION

Power Supply

- 1440W PoE IEEE 802.3af, IEEE802.3at compliant.

FREE Software & Control

- Netvio Configuration utility - discovery, configure, optimise, design, control
- Netvio Control

Weight & Dimensions

- Height: 46mm (1U)
- Width: 440mm (without rack ears)
- Depth: 200mm
- Weight: 4.0kg

In the Box

- Mounting brackets
- Regionalized IEC Power Cord

Regulations

- Safety Approvals: CE, UKCA, FCC, RoSH

Warranty

- 5-Year Standard Warranty
- 10-Year SafeGuard | 10% product value