

NPL Distributed AV KVM Over IP

Powerful Video and Image Processing Device



NPL AV KVM Over IP

NPL is AV over IP encoder and decoder that ultra-low latency, high quality video and audio signals over 1 Gbps Ethernet networks at low bitrates. The highly scalable and powerful enables secure deployment of AV signals to thousands of endpoints to create an IP-based video and audio control system.

NPL Built-in KVM function, high synchronization and easy to control multiple workstations, PC or video resources remotely via local keyboard, mouse and monitors. So is the ideal solution for Agent management, live events, conference, command center, and government/military applications.



FEATURE

Built-in KVM, support USB2.0 millisecond level delay

Maximum support 4K@30Hz input and output stable transmission

LED Support Directly

H.265 to improve compression efficiency

Protocol support: RTSP / ONVIF / UDP / RTP

EDID Management

IR bidirectional transmission

OSD

1G Optical fiber port and Ethernet Rj45 backup

RS232/RS485/IR/IO/UDP extension

Vertical screen display mode

Edge compensation and signal clipping



NP Lite

Reliable KVM over IP

NPL with USB support enables remote access to keyboards, mice and other devices (KVM) that offer flexibility in securing or accessing equipment such as digital media players that may be stored in remote locations. Using the ethernet network, using and controlling your USB devices remotely is just as easy as on your own desk.

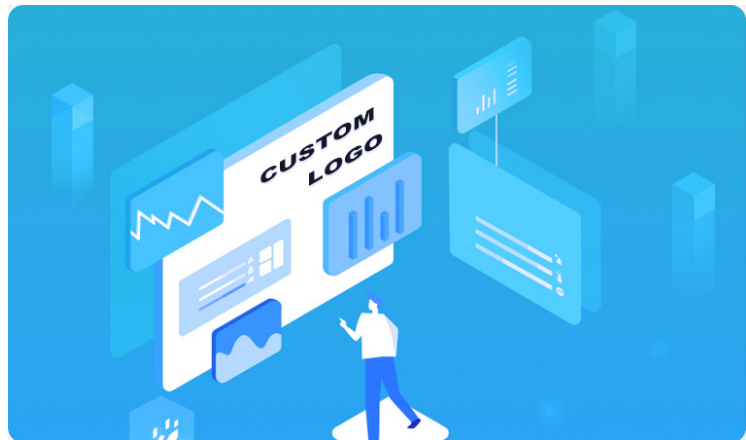


Ultra-low latency with visually lossless compression

Decodes and Encodes professional-grade video with ultra-low latency, and the output delay is less than 100ms, guaranteeing exceptional user experience and response time in mission critical applications.

UI customization

iSEMC is committed to providing customers with better customized services, supporting customized software login interface background, system control background and layout, adding LOGO.



Easy Setup and Configuration

NPL features a built-in, user-friendly software interface for easy access to network settings and other parameters. Support cross-network segment search for quick discovery of units on a network, simplifying diagnostics and installation.



Integration of encoding and decoding

A single device integrates encoding and decoding modes, and an external switch button is provided for custom selection of encoding and decoding modes.



POE

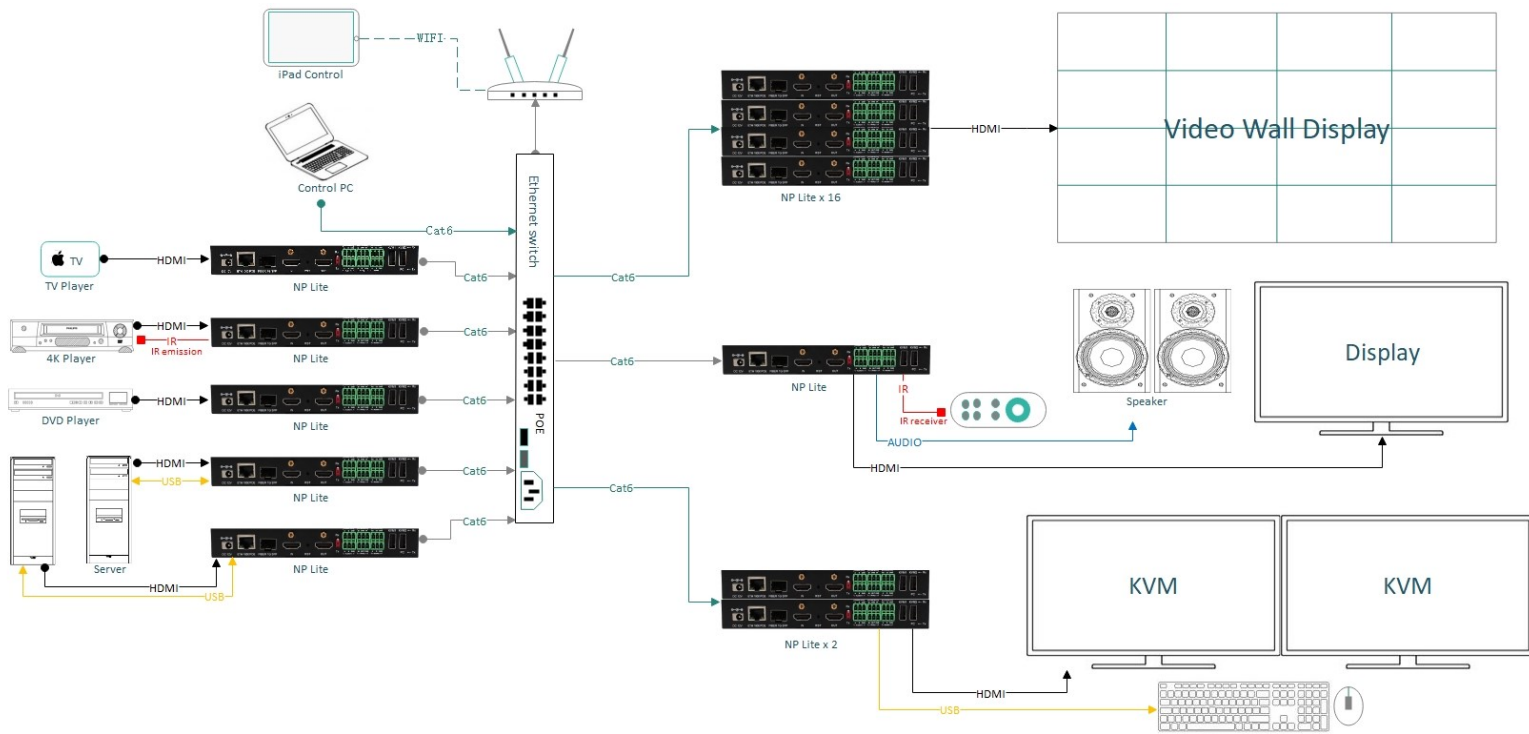
Power-over-Ethernet allows the Sender and Receiver units to be powered through a standard PoE-enabled IP network switch, without the need for external power supplies.

Flexibility and Reliable Switching

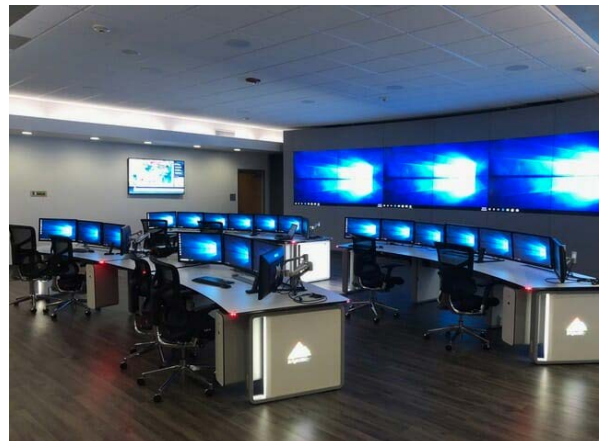
NP L AV over IP solutions provide the flexibility of an IP-based system, and has the perfect performance of integrating video and audio switching with the iSEMC series products.

DIAGRAM

NPL AV KVM Over IP System



APPLICATION



SPECIFICATIONS

NP Lite(TX Mode)

INTERFACE

Video	1 x Type-A HDMI input (Audio embedded) 1 x Type-A HDMI Loop output (Audio embedded)
Audio	1 x 3PIN Phoenix input
Communication	RS232, RS485, IO/IR, Relay
Network	1G Ethernet interface (POE) / 1 x Firber
Power	1 x DC 12V 2A
USB	2 x USB2.0 (Connect to PC)

PARAMETER

Resolution	Support up to 3840 x 2160@30Hz
Protocol	RTSP / UDP / ONVIF / RTP
Video Format	H.264 / H.265
Audio Format	AAC / G711A
Color	8bit

ENVIRONMENT

Power	DC 12V 2A
Power supply	<15W
Temperature range	0~50℃ (Working)
Working humidity	10%~90%
Size	180mm×130mm×30mm
Weight	0.713KG

NP Lite(RX Mode)

INTERFACE

Video	1 x Type-A HDMI output (Audio embedded)
Audio	1 x 3PIN Phoenix output
Communication	RS232, RS485, IO/IR, Relay
Network	1G Ethernet interface (POE) / 1 x Firber
Power	1 x DC 12V 2A
USB	2 x USB2.0 (Connect to Keyboard and Mouse)

PARAMETER

Resolution	Support up to 3840 x 2160@30Hz
Protocol	RTSP / UDP / ONVIF / RTP
Video Format	H.264 / H.265
Audio Format	AAC / G711A
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ENVIRONMENT

Power	DC 12V 2A
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NP Series