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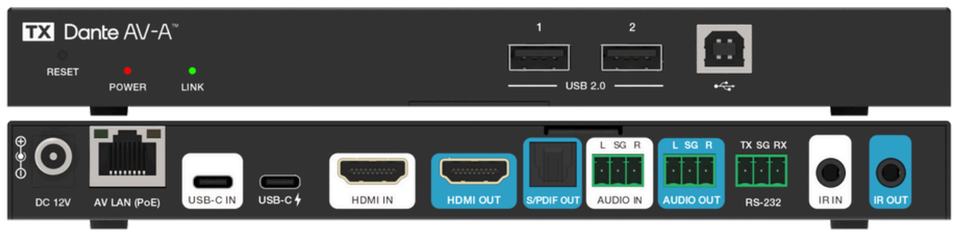
NETVIO

IP-JP4-60-DX SERIES

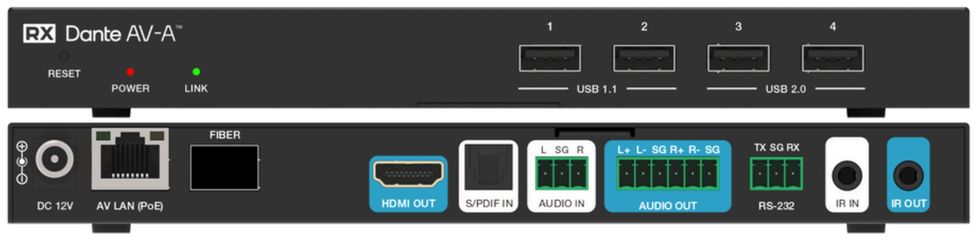
4K60 (4:4:4) 1Gb AVoIP Solution
USB-C / HDMI Connectivity

Dante AV-A™

AVOIP



IP-JP4-60-DX-TX-10



IP-JP4-60-DX-RX-10

> Product Description

The Netvio IP-JP4-DX Series represents Netvio's newest and flagship AV-over-IP platform, engineered to meet the evolving demands of modern collaboration, enterprise, and hybrid working environments. Building on the proven JP4 architecture, the JP4-DX Series introduces native HDMI and USB-C input switching, USB-C device connectivity with integrated 60W charging, USB 2.0 routing over IP, and SFP fiber connectivity for enhanced scale and deployment flexibility.

Designed for operation over standard 1Gb Ethernet networks, the IP-JP4-DX Series delivers visually lossless 4K60 4:4:4 HDR video with ultra-low latency while seamlessly transporting video, audio, USB, and control signals across a unified IP infrastructure. The platform is configured using Netvio360 and controlled via NetvioGo or traditional third-party control system drivers, providing flexible integration across both Netvio-centric and established AV control environments.

> Product Features

- Flagship Netvio AV-over-IP platform
- HDMI and USB-C input switching on a single device
- USB-C connectivity supporting video, USB, and up to 60W device charging
- Visually lossless 4K60 4:4:4 HDR video transmission
- Ultra-low latency, pixel-for-pixel performance
- USB 2.0 routing over IP for cameras, touch panels, and peripherals
- Integrated SFP fiber port for long-distance links and high-scale systems
- Operates on standard 1Gb Ethernet networks
- Scalable from point-to-point to enterprise matrix deployments
- Centralised configuration via Netvio360
- Integrated system control using NetvioGo or traditional drivers
- Backed by a 5-Year Product Warranty

> What's Included

- 1 × (Encoder or Decoder)
- 1 × IR Receiver Cable (1.5 m / 4.9 ft)
- 1 × IR Blaster Cable (1.5 m / 4.9 ft)
- 3 × 3-pin Phoenix Connectors (RS-232, Audio)
- 2 × Mounting Ears + Screws
- 1 × User information

- 12V/1A PSU not provided, PoE Default power.

> Included Software & Apps

- Netvio360 Configuration Software
- AppBuilder Software
- NetvioGo End-user application.

> Specifications

Video
- HDMI 2.0b
- HDCP 2.2 / 1.x
- Maximum resolution: 3840 × 2160 @ 60Hz (4:4:4)
- Maximum video bandwidth: 18Gbps
- HDR support: HDR10, HDR10+, Dolby Vision
- End-to-end latency: ≤ 1 video frame (~16ms)
- Scaler support for 4K to 1080p conversion

USB
- USB-C input supporting video, USB, and power
- USB-C charging output up to 60W
- USB 2.0 routing over IP
- Host and device mode support
- Suitable for UC systems, MTR appliances, and collaboration peripherals

Audio
- Embedded HDMI audio support
- Multichannel audio formats including:
- LPCM 2.0 / 5.1 / 7.1, Dolby Digital, Dolby TrueHD, DTS-HD Master Audio
- Balanced analogue audio input and output (model dependent)
- Digital audio input / output (model dependent)

Network
- 1 × RJ45 Ethernet (AV LAN, PoE)
- 1 × SFP Fiber Port (RX / model dependent)
- Compatible with managed 1Gb Ethernet switches
- Multicast and VLAN compatible

Streaming
- Dual streams—JPEG2000 + H.265; VLAN capable for secondary stream

Control Interfaces
- Web GUI, RS-232 (Phoenix), TCP/IP API, IR

Video Wall Support
- Up to 16×16, including advanced wall-in-wall layouts

Power
- PoE (IEEE 802.3af) or 12 V DC power supply
- Power Consumption
- Encoder: < 8 W; Decoder: < 4 W

Dimensions
- 204 × 100 × 21.5 mm (8.03 × 3.94 × 0.85 in)

Weight
- Encoder: 509 g (1.12 lb); Decoder: 496 g (1.09 lb)

Housing
- Black metal enclosure

Operating Temp
- 0 °C to 40 °C (32 °F to 104 °F)
- Storage Temp
- –20 °C to 60 °C (–4 °F to 140 °F)
- Humidity
- 20–90 % RH, non-condensing

County of origin
- Hardware: China
- Software: UK

HSA Code
- 8517.62.0000

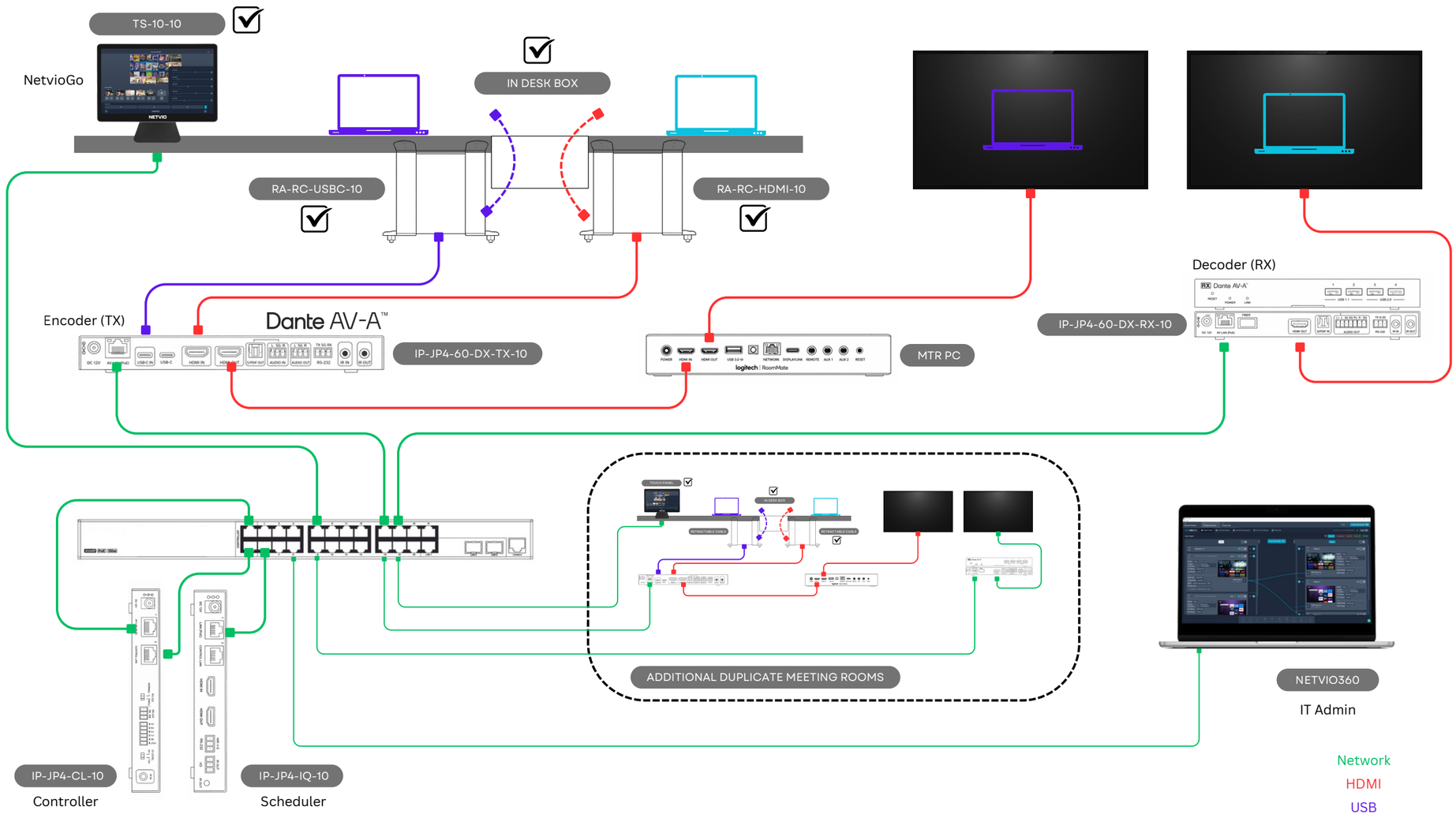
Warranty
- 5-Years (2-years advanced replacement).
- Subject to warranty conditions available at www.netvio.io/warranty

> Connectivity

Encoder
- Inputs
  - 1 × HDMI In
  - 1 × USB-C In (Video, USB, Power)
  - 1 × Analog Audio In
  - 1 × IR In
  - 1 × RS-232
- Outputs
  - 1 × HDMI Loop Out
  - 1 × Analog Audio Out
  - USB-C 60W charging output
  - 1x IR Out
- LAN
  - 1 × LAN (RJ45) — Gigabit Ethernet for AV-over-IP transport
- Other
  - 1 × DC Power In (12 V) (PSU not suppled) or PoE

Decoder
- Inputs
  - 1 × AV LAN (RJ45)
  - 1 × SFP Fiber (model dependent)
  - 1 × Digital Audio In
  - 1 × IR Inc
- Outputs
  - 1 × HDMI Out (up to 4K60 4:4:4)
  - 1 × Analog Audio Out
  - USB Host Ports (USB 2.0)
  - 1 × RS-232
  - 1 × IR Out
- LAN
  - 1 × LAN (RJ45) — Gigabit Ethernet for AV-over-IP transport
- Other
  - 1 × DC Power In (12 V) (PSU not suppled) or PoE

> Wiring Diagram



> Related Products

- IP-JP4-CL-10 (Network Controller) - **Not required in AV-A Mode**
- IP-JP4-60-D Series (can be mixed)
- IP-SW-24P-10 / IP-SW-48P-10 (Plug & Network Switches)
- TS-10-10 (Touch Screen)
- TS-MT-20 (Adjustable Height Touch Screen Mount)
- MV-H2-0401-10 (MultiView)
- IP-RK-10 (Rack Mount)

> Integrations

- NetvioGO End-User Application (Free)
- NetvioGo integrations including Blaze, LEA, Powersoft, Symetrix, Cloud, Yamaha, plus many other AV devices.
- Control System Drivers including Crestron, Q-Sys, Control4, RTI, Elan
- Dante Controller, Director, Domain Manager

> Architects & Engineers Description

The system shall consist of Netvio IP-JP4-DX Series HDMI and USB-C AVoIP encoders and decoders designed for operation over standard 1Gb Ethernet network infrastructure. The platform shall support visually lossless 4K60 4:4:4 HDR video with ultra-low latency and shall provide integrated HDMI and USB-C input switching, USB 2.0 routing over IP, USB-C device charging up to 60 W, and SFP fiber connectivity for extended distance and high-scale deployments.

The devices shall support HDR10, HDR10+, and Dolby Vision, and shall pass through multichannel HDMI audio formats including LPCM, Dolby Digital, Dolby TrueHD, DTS-HD Master Audio, and DSD. In addition to video transport, each IP-JP4-DX unit shall include an integrated 2 × 2 Dante audio channel interface as standard, enabling the transmission and reception of stereo Dante audio streams over the same network connection as video.

The integrated Dante audio interface shall operate either as part of the Netvio AVoIP ecosystem or within a standalone Audinate Dante environment, providing full interoperability with third-party Dante-enabled audio devices. Dante audio functionality shall be natively compatible with Audinate Dante Controller, Dante Director, and Dante Domain Manager, enabling full discovery, routing, and management of audio signals across standard Dante networks.

The IP-JP4-DX Series shall be compatible with standard 1Gb Ethernet network switches and shall support scalable deployment ranging from point-to-point links to large-scale, enterprise-wide matrix topologies. System configuration shall be provided via Netvio360, with control available via NetvioGo or traditional third-party control system drivers, delivering a unified, flexible, and future-ready AV-over-IP solution with integrated video, audio, USB, and control.

> Approved Switches

- **Netvio**

- Arakins
- Cisco
- Draytek
- Luxul
- Netgear
- Niveo
- Ubiquiti

Switch guides are available for download at www.netvio.io or www.netvio.co.uk