

IP-JP4-60-DNT SERIES

4K60 (4:4:4) 1Gb AVoIP Solution

AVOIP



IP-JP4-60-DNT-TX-10



IP-JP4-60-DNT-RX-10

> Product Description

The Netvio IP-JP4-60-DNT Series combines the proven performance of Netvio's JP4-60 AVoIP platform with the power of Audinate's Dante AV-A technology, delivering fully synchronized video and audio distribution over standard 1Gb networks. Supporting visually lossless 4K60 4:4:4 HDR video at 18Gbps with ultra-low latency pixel-for-pixel performance, the JP4-60-DNT Series ensures uncompromised video quality while seamlessly integrating broadcast-grade Dante audio transport.

This new platform enables native interoperability with Dante audio devices across the same network, allowing AV professionals to route and manage both video and audio using Dante Director, Dante Controller, or Dante Domain Manager. Supporting HDCP 2.2, HDR10, HDR10+, Dolby Vision, and multichannel audio formats, the JP4-60-DNT Series delivers a unified, scalable AV-over-IP solution that bridges the gap between video and audio networks, and can be deployed as part of Netvio or Audinate's award-winning software interfaces and eco-structure.

> Product Features

- Newest iteration of Dante compatible video solutions.
- 4K60 4:4:4 video encoding and decoding.
- Video, Audio, IR & RS-232 signal routing through Dante software tools
- Adds two channels of Dante audio that are interoperable with any Dante-enabled device.
- Works on common 1Gbps networks, avoiding cost and complexity of 10Gb solutions.
- Low latency (1 frame/16ms) perfect for IMAG and in room video distribution.
- HDCP 2.2 support including compatibility with HDCP2.3 devices.
- Device monitoring through Dante Director & Domain Manager.
- 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

Audio | Video

- Supports HDMI2.0b 18Gb HDMI input signal.
- HDCP 2.2 support including compatibility with HDCP2.3 devices.
- Max Video Transmission 3840x2160 60fps 4:4:4 8bit
- Video signal over LAN not exceeding 850Mbps
- HDR Support at 4K60 4:2:2 10bit
- 2x2 Dante Audio Channels
- IP Preview (RTSP) Main Output 1920x1080 30fps + LPCM 2.0 audio
- IP Preview Sub Output 960x580 30fps
- Enhanced compatibility mode ideal conference hubs, laptop & commercial display integration.
- HDMI Loop Out (TX) 3840x2160 60fps 8b 4:4:4
- HDR Compatible including HDR10, HLG, HDR10+ & Dolby Vision
- Scaler capable of 4K to 2K
- End to Latency =< less than 1 video frame
- LPCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos DTS, DTS-96/24, DTS-EX DSD, DTS High Res, DTS-HD Master, DTS:X
- Multiple audio connectivity including analog and digital options.
- Supports ARC/eARC capture & routing.
- Ability to embed additional audio source to HDMI signal via encoder.

Network

- 1 GbE, up to 100 m (328 ft) over CAT5e/6/6A/7

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 16x16, 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

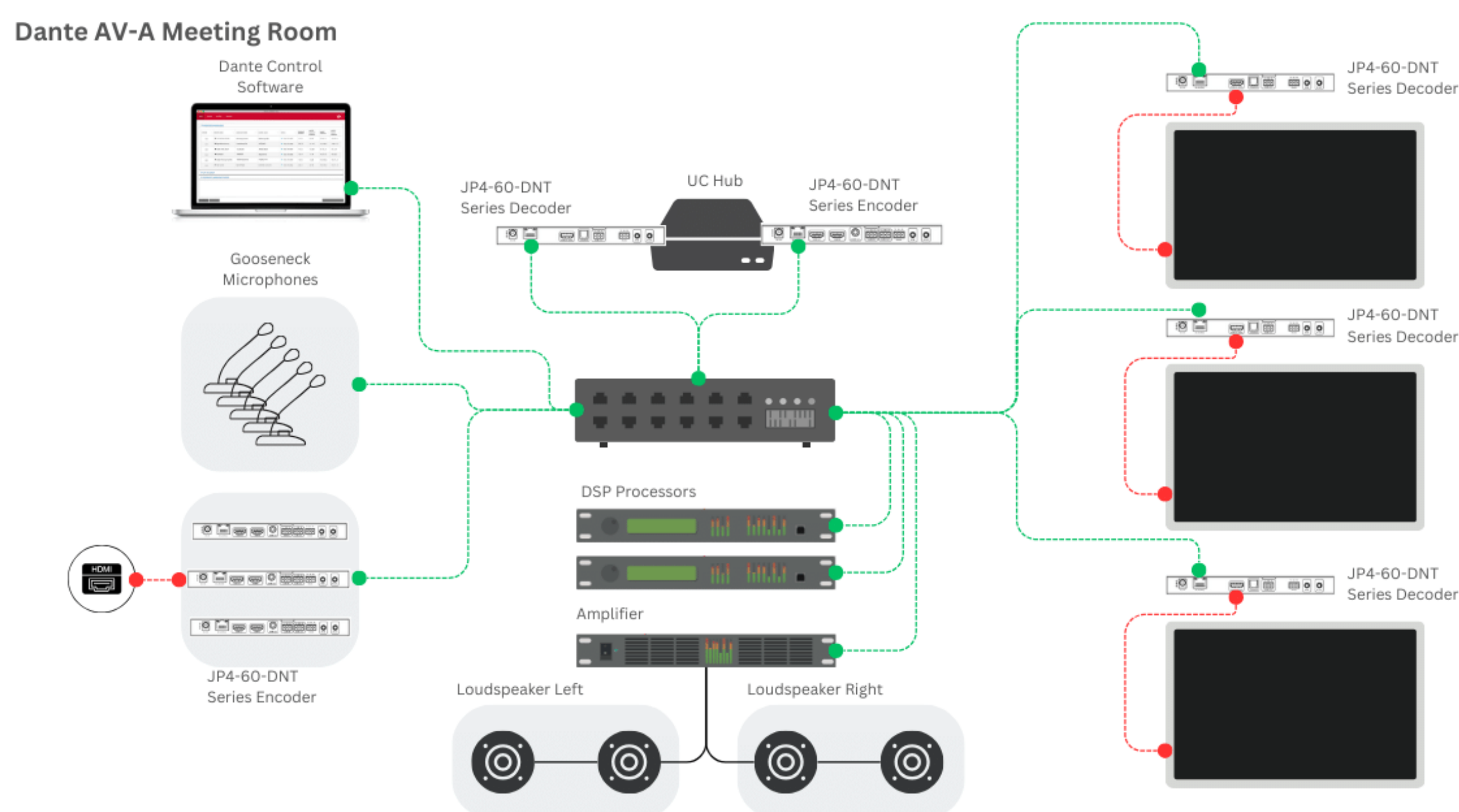
Encoder

- Inputs
 - 1 × HDMI In — up to 4K60 4:4:4
 - 1 × Analog Audio In (3.5 mm stereo)
 - 1 × IR In (3.5 mm)
 - 1 × RS-232 (Phoenix connector)
- Outputs
 - 1 × HDMI Loop Out — local monitoring / confidence feed
 - 1 × Analog Audio Out (3.5 mm stereo)
 - Coax Digital Audio Output
 - 1 × IR Out (3.5 mm)
- LAN
 - 1 × LAN (RJ45) — Gigabit Ethernet for AV-over-IP transport
- Other
 - 1 × DC Power In (12 V) (PSU not supplied) or PoE

Decoder

- Inputs
 - 1 × HDMI Out
 - 1 × Analog Audio In (3.5 mm stereo)
 - 1 × IR In (3.5 mm)
 - TOSLINK Digital audio Input
 - 1 × LAN (RJ45) — Gigabit Ethernet for AV-over-IP transport
- Outputs
 - 1 × HDMI Out — up to 4K60 4:4:4 to display/projector
 - 1 × Analog Audio Out (3.5 mm stereo)
 - 1 × IR Out (3.5 mm)
 - 1 × RS-232 (Phoenix connector)
- LAN
 - 1 × LAN (RJ45) — Gigabit Ethernet for AV-over-IP transport
- Other
 - 1 × DC Power In (12 V) (PSU not supplied) or PoE

> Wiring Diagram



> Related Products

- IP-JP4-CL-10 (Network Controller) - **Not required in AV-A Mode**
- IP-JP4-60 Series (can be mixed)
- IP-SW-24P-10 / IP-SW-48P-10 (Plug & Network Switches)
- TS-13-10 (Touch Screen) - Moving to TS-10-10 Equivalent
- TS-MT-10 (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-JP4-60-DNT Series HDMI AVoIP encoders and decoders designed for operation over standard 1Gb network infrastructure. Each unit shall support HDMI 2.0b, HDCP 2.2/1.x, and provide visually lossless 4K60 4:4:4 HDR video transmission at up to 18Gbps with ultra-low latency pixel-for-pixel performance.

The devices shall support HDR10, HDR10+, and Dolby Vision, and pass through multichannel HDMI audio formats including LPCM, Dolby Digital, Dolby TrueHD, DTS-HD Master Audio, and DSD. In addition to video transport, each JP4-60-DNT unit shall provide an integrated 2x2 Dante audio channel interface, enabling the transmission and reception of stereo Dante audio streams over the same network connection as video.

The Dante audio interface shall be able to operate as a standard audio stream within the Netvio ecosystem or as part of an Audinate-exclusive Dante environment, providing full interoperability with other Dante-enabled products.

The Dante audio functionality shall be natively compatible with Audinate Dante Controller, Dante Director, and Dante Domain Manager software platforms, allowing full discovery, routing, and management of Dante audio signals within standard Dante networks.

The units shall be compatible with standard 1Gb network switches and support scalable deployment from point-to-point links to enterprise-wide matrix topologies.

> 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