JP4-60-DNT Series Overview

- Multi-Stream solution supporting simultaneous JPEG2000 4K60 & H.264 or H.265
- Latest 4K60 4:4:4 content over a standard 1Gb network, extending up to 100m (331ft)
- Full HDR support at 4K60 4:2:2 10bit
- Visually lossless codec not surpassing 850mbs
- Sub-frame ultra-low latency with genlock synchronization.
- Market leading EDID & HDCP management
- Supports latest digital audio formats up to Dolby Atmos and DTS:X
- Secure IP terminal for discovery, configuration, security, management & signal routing.
- Secure streaming and control using AES 256 & SSH as well as custom security certificate support.
- Onboard Netvio360 configuration software NetvioGo AV Control solution.
- 802.1Q VLAN tagging of primary, ContentPlus+ & Dante Audio streams (Netvio mode only)
- Drivers for traditional control systems.
- Fail safe firmware Updates - Dual firmware memory partitions eliminate RMA's caused by update failures
- Backed by a 5-Year Product Warranty





DUAL FUNCTIONING PRODUCT:
Netvio Mode: Netvio360 Software with centralised network controller (IP-JP4-CL-10)
AV-A Mode: Dante Controller, Director, Domain Manager. No central controller required.

Description

For over a decade, Dante has emerged as the premier technology platform for top-tier audio distribution. Audinate has led the industry's transition from analog to digital, ushering all devices onto a cost-efficient 1Gb Network standard. This shift significantly enhances scalability and functionality while streamlining the complexities and costs associated with analog cabling.

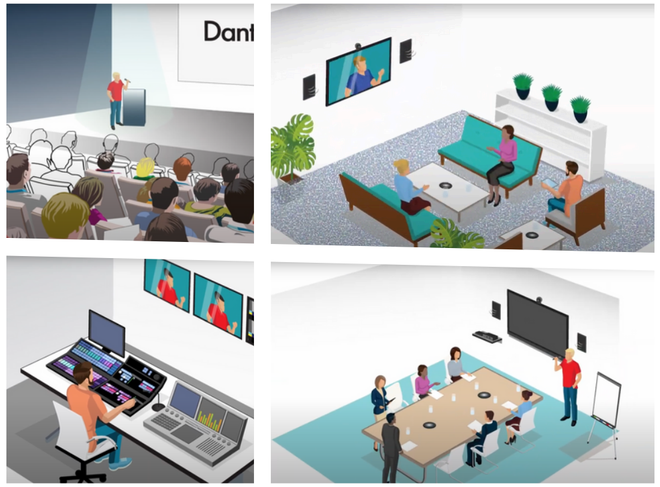
Historically, video devices operated separately from the Dante ecosystem. However, this changes with the introduction of Dante Video and particularly with the latest AV-A platform. AV-A represents the newest iteration of Dante Video, alongside Ultra and AV-H already present in the market today.

Dante AV-A delivers high-quality, ultra-low latency video along with 2 channels of Dante audio, instantly compatible with Dante audio devices, simplifying distributed AV system design. Independently routable audio and video flows, managed through familiar Dante software, enable effortless audio and video switching with a simple click in Dante Controller, while Dante Domain Manager offers IT-level management and control.

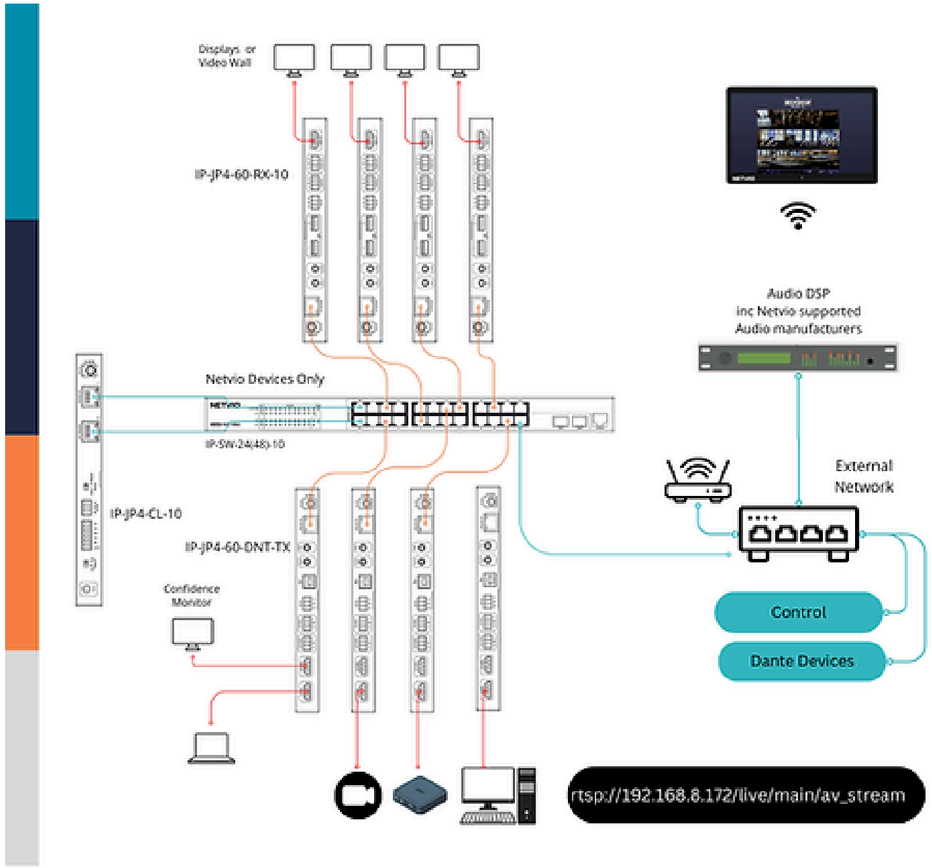
Applications

Introducing the cutting-edge Dante AV-A video solution, tailor-made for seamless mixed content distribution across a spectrum of settings including venues, events, workspaces, learning environments, house of worship, corporate and luxury residential spaces.

Setting a new standard, the Netvio JP4-60-DNT series delivers flawless 4K60 content from any HDMI source imaginable. Whether it's digital signage, media players, laptops, PCs, security systems, PTZ cameras, unified communication hubs, or cable TV receivers, this series ensures unparalleled clarity and fidelity.



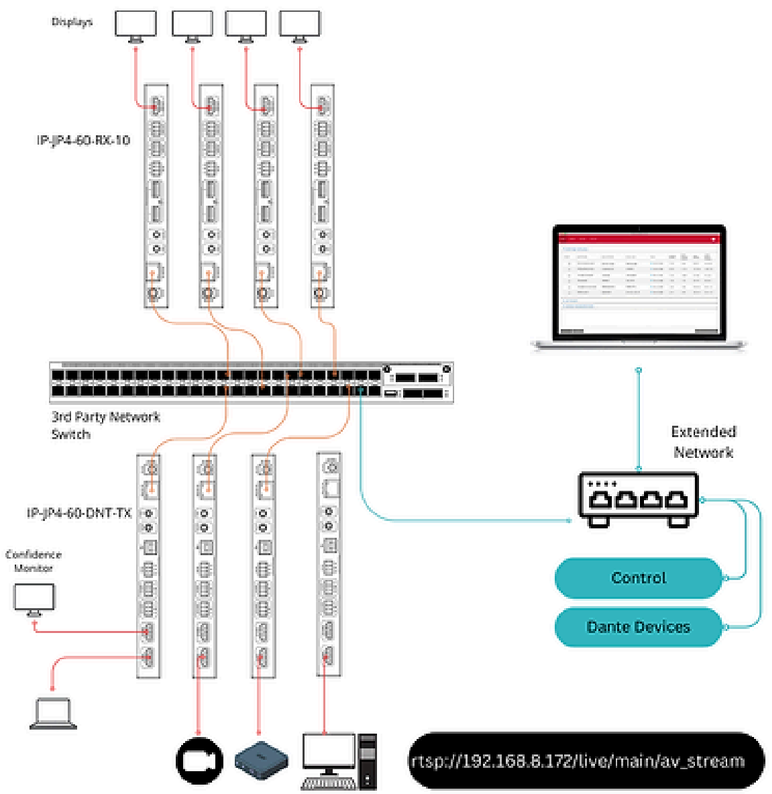
One Product, Two Personalities



Netvio Mode

- System configuration via Netvio360 software.
- Devices fully licensed out of box, requiring no ongoing subscriptions.
- Requires IP-JP4-CL-10 as network controller.
- Netvio video devices can reside on Netvio Zero Config Switches.
- Compatible with NetvioGo control application.
- Drivers for Crestron, S-SYS, Control4, Savant, Elan, RTi
- Includes Netvio ContentPlus+ secondary decoder feed (RTSP).

One Product, Two Personalities



AV-A Mode

- Fully Dante configured.
- Does not require IP-JP4-CL-10 network control device.
- Compatible with Dante Controller, Director, Domain Manager.
- Control system drivers for Crestron, Q-SYS & AMX
- Compatible with 3rd party switches only.
- Includes Netvio ContentPlus+ secondary decoder feed (RTSP).

Encoder

- 1Gb 4K60 HDR PoE Dante AV-A Encoder
- ContentPlus+ 2K30 RTSP stream
- 2 x 2 Dante Audio Channels
- Extends distance up to 100m (331ft) using Cat6 cabling.
- Works over standard single layer or multi-layer networks.
- Alternative audio source input replacing HDMI audio content
- IR & RS-232 control ports routable via control system.
- Features HDMI 4K60 HDMI loop-out for confidence monitor or system expansion.
- 2K30 Low Bandwidth Real-time-stream-protocol (RTSP) including stereo audio
- Content Plus+ distribution modes configured outside of Dante software, include:
    - Embed live content to digital signage platforms.
    - High-quality 2K30 audio-video decoding through wired and wireless applications (VLC)
    - Capture live content seamlessly for internet broadcasting using live production software.

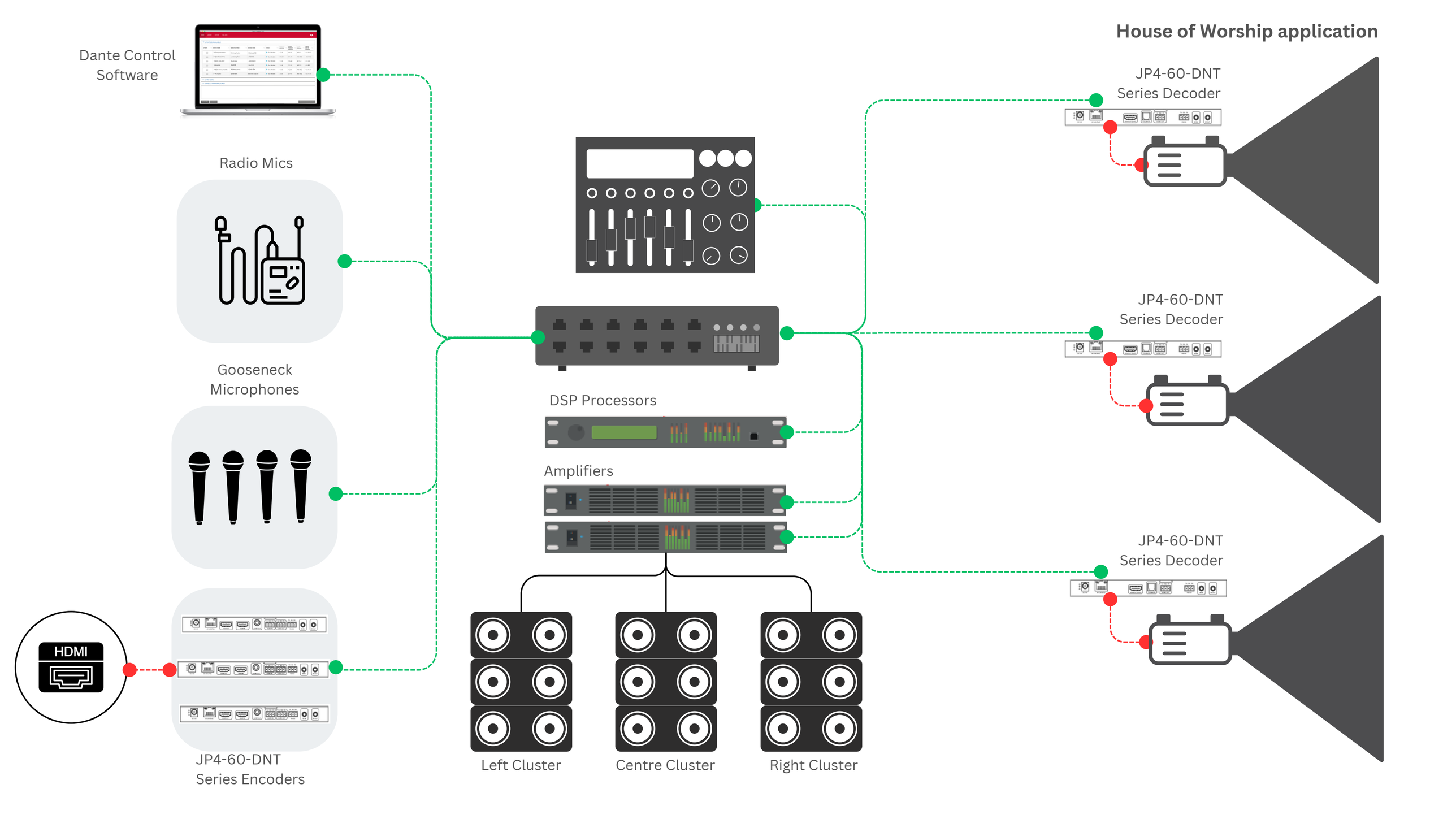


Decoder

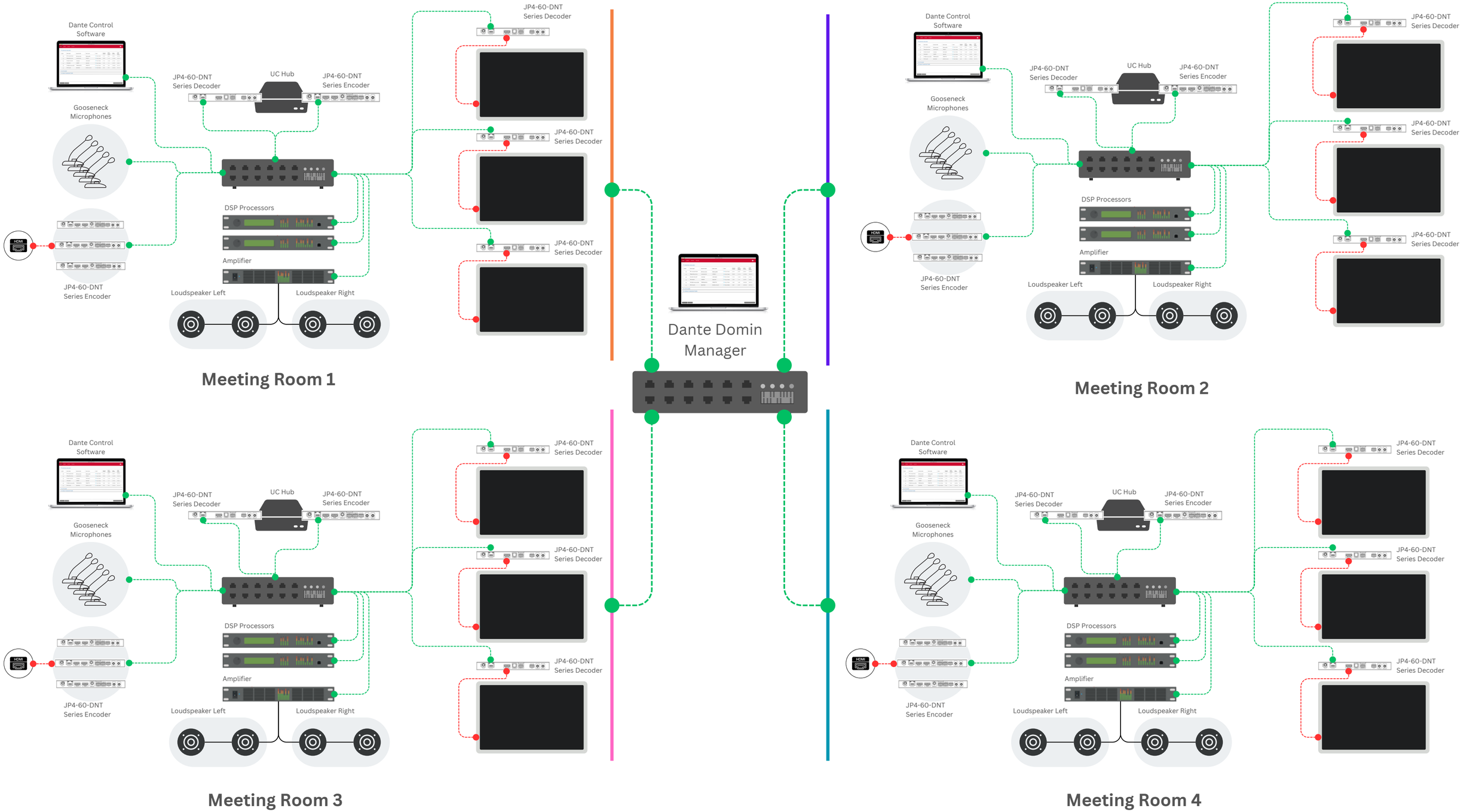
- 1Gb 4K60 HDR PoE Dante AV-A Decoder
- 2 x 2 Dante Audio Channels
- Onboard 4K/2K scaling allowing support for legacy displays
- Ultra-low latency including Genlock synchronization between devices
- Connected device control via IR & RS-232
- Stereo audio output
- IR & RS-232 control ports routable via control systems



House of Worship application



Extended Corporate Application



Technical Specifications

Audio | Video

- Supports HDMI2.0b 18Gb HDMI input signal.
- Compliance up to HDCP2.2
- Compliance up to HDCP2.x with Netvio HDCP management
- Max Video Transmission 3840x2160 60fps 4:4:4 8bit
- HDR Support at 4K60 4:2:2 10bit
- 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
- 2x2 Dante Audio Channels
- 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

Software & Control (AV-A)

- Dante-AV
- Dante Controller
- Dante Director
- Dante Domain Manager
- Dante Via
- Dante Virtual Sound Card
- Available control system drivers include **Crestron, Q-SYS, AMX**

Software & Control (Netvio Mode)

- Netvio360
- Netvio Go

Works with…….

- IP-JP4-60-TX-10 (Encoder)
- IP-JP4-60-RX-10 (Decoder)
- IP-RK-10 (Rack)
- *IP-JP4-CL-10 (Netvio Mode)*
- *IP-SW-24P-10 (Netvio Mode)*
- *IP-SW-48P-10 (Netvio Mode)*

Approved Network Switches

- Netvio IP-SW Series (Netvio Mode)
- Cisco Catalyst
- Draytek P Series
- Netgear AV Line
- Araknis 210, 310 Series

Electrical & Mechanical

- 5-Year product warranty
- Product Approvals CE, UKCA, FCC, RoSH
- Product Dimensions: W: 205mm x D: 136m x H: 21mm
- Package Dimensions: W: 265mm x D: 232mm x H: 30mm
- Unit Weight | 675g
- Power | IEEE 802.3af (15watts max per device).
- Operating temperature | 32 °F to 104°F / -20 °C to 60°C
- Storage temperature | -4 °F to 140°F / -20°C to 60°C
- BTU: 30 Btu/hr nominal

Box Contents

- Encoder or Decoder device
- Wall mounting brackets
- Phoenix connectors for RS-232 and audio
- IR TX & IR RX Accessories