AJA OG-DANTE-12GAM openGear 12G-SDI/DANTE 64-Channel Embedder/Disembedder

OG-DANTE-12GAM is an openGear, Dante audio embedder/disembedder, with dual 12G-SDI input and output ports providing up to 32-channels of audio embedding and 32-channels of disembedding simultaneously. OG-DANTE-12GAM provides the bridge between SDI and Dante infrastructures.

Dante audio networking provides digital audio distribution over local and wide-area networks with low latency, using standard network hardware or by connecting into a standard network infrastructure. This offers many advantages over analog, AES, and MADI infrastructures, including audio system scalability, easier installation, and simplified wiring.

A fully populated OG-X-FR openGear frame with ten OG-DANTE-12GAM cards, provides an incredible 640-channels of audio bridging in a rack-mountable form factor for a wide range of needs.

Features

- Support for 12G/6G/3G-SDI audio embedding to- and from- the Dante audio ecosystem
- Dual, and independent 12G-SDI Input and Output ports, each supporting 16-audio channels, totaling 64-channels per card in a compact design
- 1x Primary and 1x Secondary Gigabit Ethernet ports for Dante network redundancy
- 64-channels of simultaneous SDI/Dante audio bridging per card
- DashBoard support for remote signal status and configuration
- Compatible with a range of Dante Software from Audinate including Dante Controller for routing and configuration choices
- High density and small form factor, enabling 10 cards to be utilized in a single openGear frame for up to 640-channels of SDI/Dante audio bridging
- Supported within OG-X-FR and OG3 openGear frames
- Hot-swap capable
- Industry-leading five year warranty

OG-DANTE-12GAM Overview Video

OG-DANTE-12GAM provides the bridge between SDI and Dante ecosystems.

Watch this video for an introduction on the many benefits and advantages Dante audio over IP offers for embedding and disembedding to and from professional SDI workflows.

Dante: The Audio Networking Standard for the Pro AV Industry

Dante audio networking provides digital audio distribution over local and wide area networking with low latency (<1 ms), using standard network hardware or by connecting into a standard network infrastructure. This offers many advantages, including audio system scalability, easier installation, and simplified wiring.

Dante also allows uncompressed, multi-channel, low latency high-resolution digital audio to be distributed across a switched Ethernet network using standard TCP/IP protocols while meeting the stringent quality requirements of professional audio.

Dante audio is the primary choice for ProAV system integrators and a growing number of broadcasters and is widely adopted by 450 manufacturers offering 2500+ Dante device types.

- Current solutions require many devices, or a very high price to accomplish this bridging. DANTE reduces the amount of gear required to perform this bridging function.
- DANTE audio provides a redundant infrastructure with two networks, a primary and secondary 1 GigE ports, which provide users with a robust system of audio transport.
- DANTE audio solutions also provides a synchronization solution that is not met by other solutions for audio over IP.

Bridge Between SDI/Dante Sources and Destinations

OG-DANTE-12GAM bridges between SDI sources and destinations with embedded audio to/from the Dante audio ecosystem. It's your SDI/Dante Gateway.

- OG-DANTE-12GAM provides two 12G-SDI ports for input and two ports for outputs, providing single cable support of 4K/UltraHD/2K/HD/SD video material and up to 16-channels of embedded audio support per SDI connection. This enables 64-channels of SDI/Dante bridging simultaneously.
- Audio can be bridged, mapped and embedded from Dante sources into each SDI stream or disembedded from SDI and served to Dante destinations using Dante Controller software.
- Redundancy across the Primary and Secondary 1 GigE Ethernet connections in OG-DANTE-12GAM for Dante audio, provides security and peace of mind.
- The openGear format offers high density with up to 10 cards within each openGear frame.
    - This all adds up to 640-channels of audio bridging between SDI and Dante audio in a single rack frame, ideal for flykits, OB vans and facilities.
- The openGear OG-X-FR frame itself supports redundant power supplies, critical for live environments and constant up time.

OG-DANTE-12GAM Workflow

OG-DANTE-12GAM is your bridge between embedded SDI audio and Dante sources and destinations. With Dante Controller software, you

can route sources and destinations wherever required across 1 GigE networks.

Embed your DAW audio outputs into your video projects for mastering and more. Disembed your SDI program's audio content and deliver across the network to drive mixers, amplifiers and more in live venue contexts.

Dante Controller

Use Dante Controller to set up the audio routing between Dante devices and when necessary, to update your softwarre. Dante Controller shows the OG-DANTE-12GAM openGear card as 32 routable audio sources and 32 routable audio destinations.

Use this application to set up the audio routing between Dante devices, control the audio connections in the Dante setup, and move audio in real-time over an ethernet network.

Dante Domain Manager

Use Dante Domain Manager to manage the Dante network. It supports setting up authentication, security, and other similar attributes for management of various network architectures.

Dante Via

Use Dante Via to configure audio devices to appear on the Dante network; for example, making the stereo audio portion of AJA's U-TAP appear as two audio source channels on the Dante network.

Dante Virtual Soundcard

Dante Virtual Soundcard emulates a physical PC or Mac soundcard, but instead of connecting to actual physical audio devices like a mic, it connects to the Dante network. It can receive audio signals from the Dante network including OG-DANTE-12GAM and present them to your DAW app just like a normal physical soundcard would.

Connectivity

The OG-DANTE-12GAM provides two 12G-SDI inputs and two 12G-SDI outputs alongside Gigabit Primary and Secondary Ethernet ports. OG-DANTE-12GAM automatically detects and configures to the SDI input video standard. Simple user controls in Dashboard and Dante Controller allow channel enabling and mapping to and from SDI and DANTE.

openGear Compatibility

The openGear standard ensures that AJA cards will be compatible with other openGear products from certified openGear partners. With a growing list of products, openGear is the future of rackframe products.

Flexible I/O

The modular rear panel allows custom I/O connections per card (included with individual cards).

Failsafe

The optional redundant power supply provides a secondary power source in the event of a primary power failure.

Ethernet Access

A standard Ethernet connection allows the frame to be accessed via the Dashboard application for overall frame communication. Optional per-card Ethernet access can be installed in the frame for advanced communication with compatible openGear cards.

Download DashBoard Software

Ross DashBoard software offers quick and convenient configuration and control of openGear cards on macOS, Windows and Linux.

For the latest DashBoard software downloads for your platform of choice, please visit www.opengear.tv:

AJA Mini-Matrix

Information on the complete line of AJA Rackframes and cards are now available in the Mini-Matrix mobile app on iOS. AJA products are extensive and this app helps you find the right converter for any situation, wherever you are.

Individual products have links back to the main AJA website for more details and you can email product information directly from the app. The free AJA Mini-Matrix app for iPad® and iPhone® is available now in the.