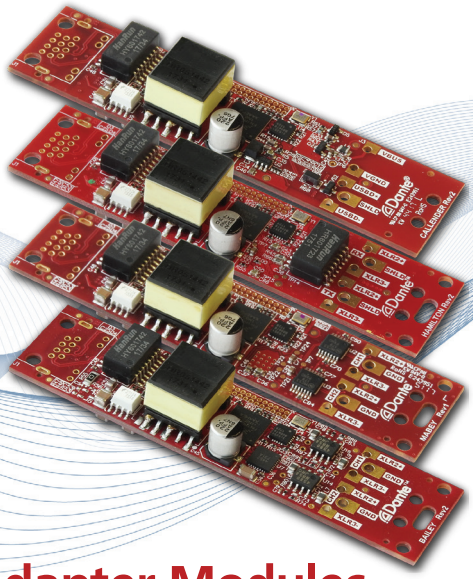
# Dante
# Adapter Modules

Network Everything



## Dante Adapter Modules

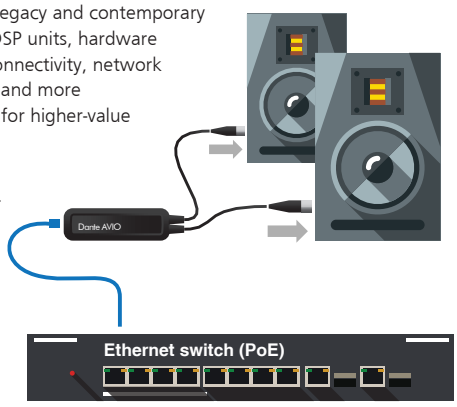
Dante Adapter Modules are compact pre-programmed Dante interface modules, designed for the production of cost-effective, custom-branded Dante audio adapters. They can also be quickly and easily integrated into larger host devices to provide Dante network support without the need for PCB design and manufacturing, component procurement and programming, significantly reducing time-to-market.

The Dante Adapter Module range consists of 6 models – single and dual-channel analog in, single and dual-channel analog out, 2 in / 2 out AES3, and 2 in / 2 out USB.

Incorporating the same high-quality field-tested components used in the Dante AVIO adapter range, the Dante Adapter Modules enable fast development of professional audio products with proven components.

The modules are designed for overmolding and clamshell enclosures, with your own choice of physical design, branding, and network and audio connectors. All Dante Adapter Modules are rigorously tested and fully programmed prior to shipping.

Audio professionals use Dante adapters to network-enable legacy and contemporary non-Dante equipment such as mixing consoles, amplifiers, DSP units, hardware soundcards and powered speakers. By maximizing device connectivity, network scope and system flexibility, adapter products enable larger and more sophisticated Dante installations, and drive market demand for higher-value audio products.




Dante Adapter Modules feature excellent audio performance, sample rates up to 96 kHz (except USB), user-configurable signal levels (for the analog models), Power over Ethernet, and support for AES67 RTP audio transport. They are fully-functional Dante devices which can provide a hardware master clock for a Dante network, and are also Dante Domain Manager (DDM) ready.

### Plug & Play

Products incorporating Dante Adapter Modules are complete, high-performance Dante devices, delivering all the interoperability and ease of use that have made Dante the most popular audio networking solution worldwide.

All Dante Adapter Module products are fully compatible with Dante Domain Manager (DDM) for IT-level security and management. AES67 is supported for connection to non-Dante networks.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## EXAMPLE USE CASES

### Analog Input Adapters

- Connect mixers and consoles to a Dante network
- Patch favorite DSPs, analog compressors and equalizers into a Dante system using a combination of Input and Output adapters
- Connect stage DI boxes and keyboard instruments directly to a Dante network
- Connect your wireless mic receiver to a Dante network

### Analog Output Adapters

- Connect analog powered speakers to your Dante audio network
- Send audio to analog power amplifiers over a Dante audio network
- Create easy drop-points for connecting cry rooms and overflow areas to a Dante network
- Connect non-networked hearing aid loop amplifiers to your Dante audio network

### AES3 Adapters

- Interface with SDI video systems using AES3 audio
- Put your AES3-compatible amplifiers and powered speakers on your Dante audio network
- Connect AES3-compatible DSPs to a Dante network
- Connect AES3-compatible microphone preamplifiers to a Dante network

### USB Adapters

- Simple, no-configuration Dante connection for conferencing
- Record or playout 2-channel audio from any PC or Mac with no additional software at all
- Connect mobile devices to a Dante network (requires a USB On-The-Go connector)

Dante™

## Compact Footprint, Compact Cost

Dante Adapter Modules are designed to occupy very little space – allowing OEMs to develop products that are compact, lightweight and ergonomic. All components are selected for the best possible performance-to-cost ratio, enabling the creation of professional-quality audio products with highly attractive price points.

## Analog input / output

The analog modules enable cost-effective adapter products perfect for connecting legacy DSP units, DI boxes and powered speakers to Dante networks. The analog modules support single or dual-channel balanced inputs or outputs with user-configurable levels.

## AES3

Adapters incorporating the AES3 module are ideal for networking power amps, mixing consoles, speaker processors and SDI video systems. The module supports asynchronous sample rate conversion.

## USB

The USB module enables class-compliant adapters for PC, Mac and mobile devices, allowing users to record and stream audio to/from laptops or mobile phones*, and create plug and play drop-in audio points for conference rooms.

** Mobile connectivity requires a suitable USB adapter with USB on-the-go support*

# Specifications

| Feature Matrix | Analog Input 1 Ch | Analog Input 2 Ch | Analog Output 1 Ch | Analog Output 2 Ch | AES3 I/O 2 In 2 Out | USB I/O 2 In 2 Out |
|---|---|---|---|---|---|---|
| Max signal level (Balanced) | +24dBu / +4dBu / 0dBu 0dBV / -10dBV | | +18dBu / +4dBu / 0dBu 0dBV / -10dBV | | - | - |
| Frequency Response | 20Hz to 20kHz (±0.5dB) | | 20Hz to 20kHz (±0.5dB) | | - | - |
| Impedance | 20k Ohm balanced 10k Ohm unbalanced | | 150 Ohm balanced 75 Ohm unbalanced | | 110 Ohm Balanced | - |
| Dynamic Range | > 100dB | | > 100dB | | - | - |
| Signal to Noise Ratio | > 100dB | | > 100dB | | > 135dB | - |
| Total Harmonic Distortion | < 0.01% at +4dBu | | < 0.01% at +4dBu | | - | - |
| Channel Separation | > 100 dB | | > 100 dB | | - | - |
| Channel Matching | < 0.25 dB | | < 0.25 dB | | - | - |
| Asynchronous Sample Rate Conversion | - | | - | | Yes | - |
| Sample Rates | 44.1, 48, 96 kHz | | | | | 48 kHz |
| Bit Depth | 24 | | | | | |
| Network Transport | Dante Audio over IP AES67 RTP | | | | | |

| Physical | |
|---|---|
| Network Connection | 1x 100Mbps Ethernet (RJ45 connector not supplied) |
| Audio Connection Options | Single or dual-channel analog in<br>Single or dual-channel analog out<br>AES3 in + out<br>USB in + out |
| Dimensions | L 93mm x W 22.1mm x H 16mm |

| Electrical | |
|---|---|
| Power Consumption | < 2 Watt |
| Power Supply | Class 1 802.3af Power over Ethernet<br>USB (USB module only) |

| Product Codes | Analog Input 1 Ch | Analog Input 2 Ch | Analog Output 1 Ch | Analog Output 2 Ch | AES3 I/O 2 In 2 Out | USB I/O 2 In 2 Out |
|---|---|---|---|---|---|---|
| | DAI-AU-001 | DAI-AU-002 | DAO-AU2-001 | DAO-AU2-002 | DIO-AU-AES3 | DIO-AU-USB |

**Note**: All information within this document is subject to change without notice.





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## FEATURES & BENEFITS

- **Compact form factor ideal for overmolding or clamshell enclosures**
- **Cost-effective with excellent audio specs**
- **Designed for rapid product development**

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