Dante Brooklyn 3™

Audio Networking Workhorse

The Dante Brooklyn 3 module is a mini-PCI form factor module that provides a complete, ready to use Dante interface for any networked audio product design.

Dante Brooklyn modules form the backbone of networked audio installations around the world. They are used in products from hundreds of manufacturers including mixers, DSPs,microphone preamplifier's, and multi-channel power amplifiers.

Featuring support for up to 64x64 channels of ultra-low latency net-worked audio in a small footprint, Brooklyn modules are the most widely used implementation of Dante to date.

Dante Brooklyn 3 is the latest evolution of the Brooklyn series and serves as a direct drop-in upgrade for Dante Brooklyn 2. With updated and more powerful processing capabilities, Dante Brooklyn 3 is ready to carry your products into the future of networked media.

The Dante Advantage

Dante Brooklyn 3 supports all the features that have made Dante the world leader in networked media, and more: auto discovery of devices, label-based one-click routing of signals, true plug-and-play operation, enhanced security and complete compatibility with Dante Domain Manager and Dante Director. With thousands of Dante-enabled products available, the Dante Brooklyn 3 provides instant connectivity to the largest and most vibrant AV-over-IP ecosystem today.

Dante Brooklyn 3™

Applications

Dante Brooklyn 3 is ideally suited for medium to high channel count high performance audio products supporting 8x8 to 64x64 channels.

Mixing consoles

DSPs

Recorders

Audio matrix switchers

Media converters

Preamplifiers

Power for Powerful Products

Dante Brooklyn 3 is designed to meet the needs of manufacturers for years to come, with a powerful AMD Zynq-7000 FPGA SoC that extends the lifecycle of the Dante Brooklyn series. A dual-core Arm Cortex A9 host processor supports OEM on-device applications such as user interface and system management.

A flexible synchronous serial audio interface provides 8 x SDIN and 8 x SDOUT audio lines with up to 2,000 samples audio buffering per channel, while two Serial Peripheral Interfaces (SPI) provide Leader and Follower functions for managing displays and product control. Additional control is supported through two RS232 ports, four GPIO pins and an I2C system interface. Uncompressed audio is supported at 44.1/48/88.2/96/176 and 192 kHz sample rates.

Standard IP and IT Ready

All Dante-enabled products provide state-of-the-art performance over common IP networks with readily available switches and equipment and use easily understood standards for IT administration. When coupled with Dante Domain Manager or Dante Director, Dante Brooklyn 3 provides the monitoring, security, and scalability that modern AV installations demand.

In addition, when used in managed networks the control and media traffic from Dante Brooklyn 3 can be fully encrypted. Dante Media Encryption implements industry-leading protection with no impact to audio latency.

Specifications

Audio Channels In/Out (44.1/48kHz)
Up to 64x64 channels

Audio Channels In/Out (88.2/96kHz)
Up to 32x32 channels

Audio Channels In/Out (176.4/192kHz)
Up to 16x16 channels

Audio Flows In/Out
Up to 32x32 simultaneous streams

Digital Audio Formats
TDM, I2S

Audio Transport Formats
Dante Audio over IP, AES67 RTP, SMPTE ST2110-30 RTP (enrolled devices)

Sample Bit Depth
16, 24 or 32 bits per sample

Audio Buffering
Up to 2000 samples per channel

Clocking
Onboard word clock or external word clock

Form Factor
Card edge module. 4.5cm x 6cm (1.75" x 2.4")

Clock
High quality, low jitter

Ethernet
Standard RGMII/MII interface for Ethernet PHY or switch chip

Power
3.3VDC @ 2W max
Physical Connector
Mini-PCI

Control Interfaces
SPI Leader and Follower; GPIO; I2C

Network
RGMII/MII