

Dante BROOKLYN II

The Future of Digital Media Networking - Today



Faster, Better, Smaller. Pick Three...

Give your products the Dante advantage more quickly and cost effectively than ever before with our most advanced module to date. The Dante Brooklyn II module is a mini PCI form factor module that provides a complete, ready to use Dante interface for any networked audio product design. Its small size belies the powerful capabilities of Brooklyn II, which supports up to 64 bi-directional channels of audio with incredibly low latency, low jitter and sub-microsecond synchronization over Gigabit networks.

Easy for you and your users

Get Dante's legendary flexibility and easy setup into your products and set your customer's imaginations aflame. Dante Brooklyn II supports all the features that have driven widespread adoption of Dante technology: autodiscovery of devices, label-based routing of signals, true plug-and-play operation, and of course superb audio performance over standard networks that can freely share all types of data.

Dante Brooklyn II includes a complete toolkit that allows you to fully integrate Dante into your designs, with a powerful onboard processor and application environment.

Small card, big toolbox

Dante Brooklyn II may be smaller than its popular predecessor Brooklyn module, but it offers an unprecedented set of tools, options and possibilities.

Audinate's patented Dante networking solution is the product of years of networking expertise, innovation, and technological creativity. Audinate know what it takes to deliver great products, and have built that experience into Brooklyn II. Fueled by a Spartan6 FPGA, Brooklyn II is a powerful Linux device with a full host of programming and interface options. 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 Master and Slave functions for managing displays and product control. Additional control is supported through two RS232 ports, four GPIO pins and an I²C system interface.

Cover virtually every segment of the audio industry with support for 44.1/48/88.2/96/176.4 and 192kHz sample rates. Choose between the high quality, low jitter on-board clock or external clock sync to suit your product needs.

Audinate

MEDIA NETWORKING TECHNOLOGY

FEATURES

- ▶ **Mini-PCI form factor:** The most powerful Dante device is also the smallest, ready to fit into virtually any design
- ▶ **Complete Sample Rate Support:** Up to 64x64 channels at 44.1/48kHz, 32x32 at 88.2/96kHz and 16x16 at 176.4/192kHz
- ▶ **Wide Interface Support:** SPI, I²C, RS232 and configurable GPIO
- ▶ **Powerful Onboard Microprocessor:** Local control and management without the need for an additional CPU
- ▶ **Powerful Development Tools:** Easy to use, Linux based software development environment for custom functionality and control
- ▶ **Flexibility:** Dante easily integrates into existing network switch infrastructure and automatically discovers other Dante-enabled devices on the network

BENEFITS

- ▶ **Compact, powerful, most capable Dante module yet:** mini-PCI form factor
- ▶ **Patented Dante media networking:** Low latency, tightly synchronized transport of uncompressed audio over IP networks using off the shelf switches
- ▶ **Simplified configuration management:** includes easy to use Dante features like automatic device discovery, plug and play networking
- ▶ **Works seamlessly with any other Dante-enabled devices on a network**
- ▶ **Up to 64 x 64 redundant channels @ 48kHz**
- ▶ **Increased support for audio sample rates including support for 44.1/48/88.2/96/ 176.4 and 192kHz sample rates**
- ▶ **Increased audio streams**
- ▶ **Support for Gigabit and 100Mbps Ethernet single PHY or Gigabit switch**
- ▶ **Full API for creation of onboard and PC-based applications**
- ▶ **Support for AES67 transport protocol**
- ▶ **Support for Device Lock**

 **Dante**TM

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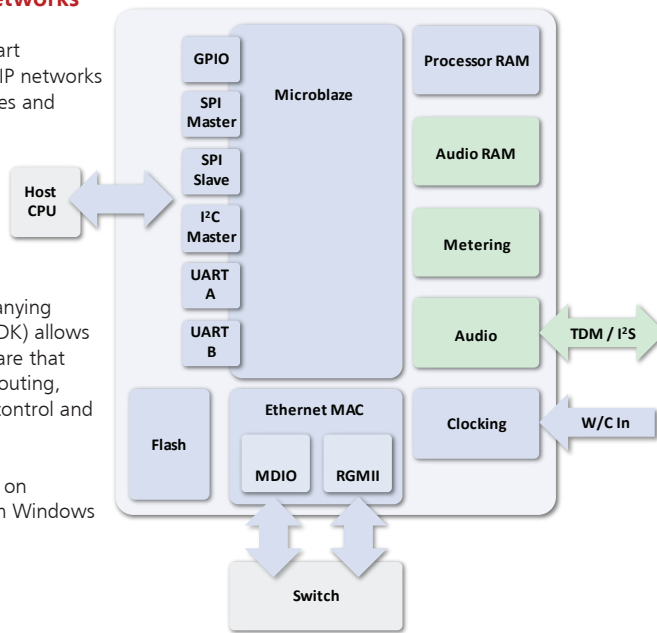
Ready for today's IP networks

Dante provides state-of-the-art performance over standard IP networks with readily-available switches and equipment.

Brooklyn II supports user-installable software upgrades directly over the network.

The Dante API and accompanying Product Development Kit (PDK) allows you to create custom software that can be used for automatic routing, labeling of signals, custom control and monitoring.

Create applications that run on Brooklyn II as well as custom Windows and Mac OS X interfaces.



SPECIFICATIONS

Audio Capabilities

| | |
|---------------------------------------------|-------------------------------------------|
| Sample Rates | 44.1/48/88.2/96/176.4/192kHz |
| 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 Format | TDM, I ² S |
| Audio Transport Format | Dante Audio over IP, AES67 RTP |
| 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 |

Hardware

| | |
|---------------------------|--------------------------------------------------------------|
| Form Factor | Card edge module. 4.5cm x 6cm (1.75" x 2.4") |
| FPGA | High performance Xilinx Spartan6 FPGA |
| Microprocessor | Soft-core Microblaze processor |
| Clock | High quality, low jitter onboard SiLabs |
| Ethernet | Standard RGMII/MII interface for Ethernet PHY or switch chip |
| Power | 3.3VDC @ 2W max |
| Physical Connector | Mini-PCI |

Interfaces

| | |
|---------------------------|----------------------------------------------|
| Control Interfaces | SPI Master and Slave; GPIO; I ² C |
| Network | RGMII/MII |

Ordering Information

| Module | License | Part number |
|-------------------|--------------------------------------|-------------|
| Brooklyn II 8x8 | Up to 8 Rx and 8 Tx audio channels | BNII-01-008 |
| Brooklyn II 32x32 | Up to 32 Rx and 32 Tx audio channels | BNII-01-032 |
| Brooklyn II 64x64 | Up to 64 Rx and 64 Tx audio channels | BNII-01-064 |

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MEDIA NETWORKING TECHNOLOGY

APPLICATIONS

- ▶ Create Dante-enabled products quickly and cost effectively
- ▶ Connect to any other Dante-enabled devices as part of larger systems
- ▶ Customize Dante Brooklyn II to differentiate your products with special features and controls
- ▶ Perfect for use in DSPs, mixers, amplifiers, preamps, and more

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