Behringer WING-DANTE

Behringer WING-DANTE WING Expansion Card User Manual

64x64 Channel Audinate Dante AoIP Networking

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Behringer WING-DANTE expansion card. The WING-DANTE card enables 64x64 channel Audinate Dante AoIP networking for your Behringer WING digital mixing console, facilitating high-quality, low-latency audio transmission over standard IP networks.
Please read this manual thoroughly before using the product to ensure safe and efficient operation.

IMPORTANT SAFETY INSTRUCTIONS

- **Power:** Ensure the WING console is powered off and disconnected from the mains supply before installing or removing the WING-DANTE card.

- **Installation:** Only qualified personnel should install this expansion card. Refer to the WING console's manual for specific instructions on installing expansion cards.

- **Environment:** Do not expose the device to rain, moisture, dripping, or splashing. Do not place objects filled with liquids on the device.

- **Ventilation:** Ensure proper ventilation around the WING console to prevent overheating.

- **Cleaning:** Clean only with a dry cloth. Do not use liquid cleaners or aerosols.

- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to service this product yourself.

PACKAGE CONTENTS

Upon unpacking, please verify that all components are present and in good condition:

- Behringer WING-DANTE Expansion Card
- Quick Start Guide (if applicable, not included in this manual)

If any items are missing or damaged, please contact your dealer immediately.

PRODUCT OVERVIEW

The WING-DANTE card provides a powerful interface for integrating your WING console into a Dante Audio over IP network. It features dual Ethernet ports for redundant Dante networking and status indicators for network activity.

Figure 1: Front view of the Behringer WING-DANTE expansion card. Shows two Ethernet ports labeled 'PRIMARY' and 'SECONDARY', each with 'ACT/LINK 1G' status LEDs. The card is black with white text.

Figure 2: Angled view of the Behringer WING-DANTE expansion card, highlighting the side profile and the green tab for insertion/removal. The two Ethernet ports and status LEDs are visible.

Key Features:

- 64-channel 48 kHz, bi-directional audio interface for Dante IP networks.
- Low-latency 24-bit signal transmission with sample-accurate synchronization.
- Interfacing with standard 100 Mbit/s or Gigabit network infrastructure with DSCP-based QoS.
- Mixed sample and bit rates can coexist on the same Dante network.
- WING remote control possible on the same network, using the integrated Ethernet switch.

SETUP AND INSTALLATION

1. **Power Off WING Console:** Before beginning, ensure your Behringer WING digital mixing console is completely powered off and disconnected from the main power supply.

2. **Locate Expansion Slot:** Refer to your WING console's user manual to identify the expansion card slot.

3. **Insert WING-DANTE Card:** Carefully align the WING-DANTE card with the expansion slot. Gently push the card into the slot until it is firmly seated. Do not force the card.

4. **Secure Card:** If your WING console has securing mechanisms for expansion cards (e.g., screws or latches), ensure the WING-DANTE card is properly secured.

5. **Connect Network Cables:** Connect standard Ethernet cables from your Dante network to the 'PRIMARY' and 'SECONDARY' ports on the WING-DANTE card. For redundant operation, connect both. For non-redundant, connect to 'PRIMARY'.

6. **Power On WING Console:** Reconnect the WING console to the main power supply and power it on. The console should detect the new WING-DANTE card.

7. **Firmware Update (if necessary):** Check the Behringer website for any firmware updates required for the WING console or the WING-DANTE card to ensure optimal compatibility and performance.

For detailed instructions on configuring Dante networks, refer to the Audinate Dante documentation and software (Dante Controller).

OPERATION

Dante Network Configuration:

The WING-DANTE card integrates seamlessly with the Dante ecosystem. Configuration is primarily managed using Audinate's **Dante Controller** software, available for Windows and macOS.

- **Install Dante Controller:** Download and install the latest version of Dante Controller from the Audinate website (www.audinate.com).

- **Network Connection:** Ensure your computer running Dante Controller is connected to the same network as your WING-DANTE card.

- **Device Recognition:** Open Dante Controller. Your WING console with the WING-DANTE card should appear as a recognized Dante device.

- **Routing Audio:** Use Dante Controller to establish audio routes between the WING-DANTE card (representing your WING console's inputs/outputs) and other Dante-enabled devices on your network.

- **Clock Synchronization:** Dante automatically manages clock synchronization. Ensure one device is designated as the master clock, or allow Dante to automatically select one.

- **IP Addressing:** By default, Dante devices use Automatic Private IP Addressing (APIPA). For larger or more complex networks, you may configure static IP addresses or use DHCP.

Status Indicators:

The WING-DANTE card features LEDs next to each Ethernet port:

- **ACT (Activity) LED:** Flashes to indicate network data activity.

- **LINK 1G (Link/Speed) LED:**

  - **Green (Solid):** Indicates a 1 Gigabit Ethernet link.
  - **Orange (Solid):** Indicates a 100 Megabit Ethernet link.
  - **Off:** No network link detected.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the WING-DANTE card. Do not use abrasive cleaners, solvents, or waxes.

- **Firmware Updates:** Periodically check the Behringer website for new firmware versions for both the WING console and the WING-DANTE card. Keeping firmware updated ensures optimal performance, compatibility, and access to new features.

- **Environmental Conditions:** Operate and store the card within recommended temperature and humidity ranges to prevent damage. Avoid extreme temperatures and high humidity.

TROUBLESHOOTING

Problem	Possible Cause	Solution
WING-DANTE card not recognized by WING console.	Card not fully seated; console firmware outdated.	Power off, reseat the card firmly. Check Behringer website for WING console firmware updates.
No network link (LINK 1G LED off).	Faulty Ethernet cable; network switch off/misconfigured; incorrect port.	Check Ethernet cable connections. Verify network switch is powered on and configured correctly. Try a different port or cable.
Dante Controller does not see the WING-DANTE card.	Computer not on same network; firewall blocking; IP address conflict.	Ensure computer is on the same subnet. Temporarily disable firewall. Check for IP address conflicts using network tools.
Audio dropouts or glitches.	Network congestion; incorrect clocking; high latency settings.	Ensure network is dedicated for Dante traffic. Verify clock master is correctly set in Dante Controller. Adjust Dante latency settings (increase if necessary). Use Gigabit switches.

SPECIFICATIONS

Feature	Detail
Model	WING-DANTE
Channels	64x64 (bi-directional)
Sample Rate	48 kHz
Bit Depth	24-bit
Connectivity	Ethernet (Dante AoIP)
Network Compatibility	Standard 100 Mbit/s or Gigabit Ethernet
QoS Support	DSCP-based QoS
Dimensions (H x W x D)	Approximately 1.42 x 5.67 x 5.12 inches (36 x 144 x 130 mm)
Weight	Approximately 12.1 ounces (343 g)

Feature	Detail
Compatible Devices	Behringer WING Digital Mixing Console

Figure 3: Rear label of the WING-DANTE card showing model number, manufacturer, and regulatory compliance markings (FCC, CE, UKCA, EAC).

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please visit the official Behringer website or contact your local Behringer distributor.
Behringer Official Website: www.behringer.com
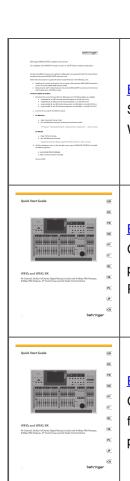Product registration is recommended to receive updates and support.

Related Documents - WING-DANTE

[Behringer WING-DANTE Quick Start Guide: Seamless AoIP Networking](#)
Get started quickly with the Behringer WING-DANTE expansion card for 64x64 channel Audinate Dante AoIP networking. This guide covers installation, safety, setup, and connection scenarios.

[Behringer WING-DANTE Firmware Update Instructions](#)
Step-by-step guide for updating the Dante module firmware on Behringer WING consoles and WING-DANTE expansion cards, including instructions for Windows and macOS.

[Behringer WING and WING-BK Quick Start Guide](#)
Get started quickly with the Behringer WING and WING-BK digital mixing console. This guide provides an essential overview to help you get started with its advanced features, including 8 Midas PRO Preamps, 8 Midas PRO Outputs, a 10" Touch Screen, and a 24-Fader Control Surface.

[Behringer WING & WING-BK Quick Start Guide](#)
Get started quickly with the Behringer WING and WING-BK, a 48-channel digital mixing console featuring Midas PRO preamps, a 10" touch screen, and a 24-fader control surface. This guide provides essential setup and overview information.

[Behringer WING User Manual: Comprehensive Guide to Digital Mixing](#)
Explore the Behringer WING, WING COMPACT, and WING RACK digital mixing consoles with this comprehensive user manual. Learn about features, controls, routing, effects, and specifications for professional audio production.

[Behringer WING Digital Mixing Console: Quick Start Guide](#)
Explore the Behringer WING, a powerful 48-channel, 28-bus digital mixing console featuring a 24-fader control surface and 10-inch touch screen. This guide covers essential hardware, setup, routing, and operational features for professional audio mixing.