

## Four Circuit 4 Wire Unit With Dante Network Audio Interface




**GS-FW012<sup>ip</sup>**

**4 Wire With Dante Interface**

### Highlights

Four x 4 Wire  
Circuits

Local Cue  
Input

Dante  
Network Audio

Three Position  
Talk Switches

Return Level  
Controls

Power Via  
PoE or  
100-240 VAC

### Overview

The GS-FW012 ip is a four circuit 4 wire unit. The 4 inputs and 4 outputs are via the single RJ45 network audio connection using Dante.

There is a top panel internal mic with an option for an external gooseneck mic, and a top panel speaker.

There are 4 x three position talk switches, and 4 x return audio level controls. There is also a local cue input via XLR.

The GS-FW012 ip can connect to any Dante network, or via GlenSound's own Dante DARK or AoIP interface units.





- Two Four Wire Circuits**  
 The GS-FW012 ip has four talkback circuits. The talkback buttons for each circuit have 3 positions:
  - Latching
  - Momentary push to talk (PTT)
  - Off

Each 4 wire circuit has a pot to set the incoming 4W audio level. An LED under each pots indicates if audio is present.

There is a local Cue input via rear panel 3 pin XLR. This has its own top panel pot for setting a monitoring level.

The output for each 4W circuit can be set in 3 modes.

- 4W Output Modes**
  - Off. Audio only present when talkback button pressed.
  - Local. The local input is sent to the output. The talkback button interrupts this.
  - Loop. The 4W input is looped back to the output. The talkback button interrupts this.

- User Interface**  
 There is a top panel microphone and also a connection for an external gooseneck microphone.

There is a top panel speaker for the return audio (with level adjust), or monitoring can be by headphones via the 6.35mm headphone socket.

GS-FW012<sup>ip</sup>

4 Wire With Dante Interface

## Features



- Network Audio Link**  
 The GS-FW012 ip is Dante network audio compatible. The network connection is via a single RJ45. This link carries:
  - 4 audio inputs
  - 4 audio outputs
  - Power over Ethernet (PoE)

**Audio connections across the network can be to:**

- Another GS-FW012 ip as a point to point 4W connection
- An Express ip Commentary Unit, an Inferno Commentary Unit or a Vita Commentary Unit as part of a talkback setup.
- An AoIP44, DARK88 or DARK 1616 audio input/output interface
- Any other Dante compatible unit

All audio routing is set by the free Dante Controller software.

- Power**  
 The GS-FW012 ip has two possible power sources. It can be powered via PoE when connected to a compatible switch, or via the internal 100-240 VAC supply.



Keeps Working

## Dante Controller Route Audio & Configure Devices On A Dante Network

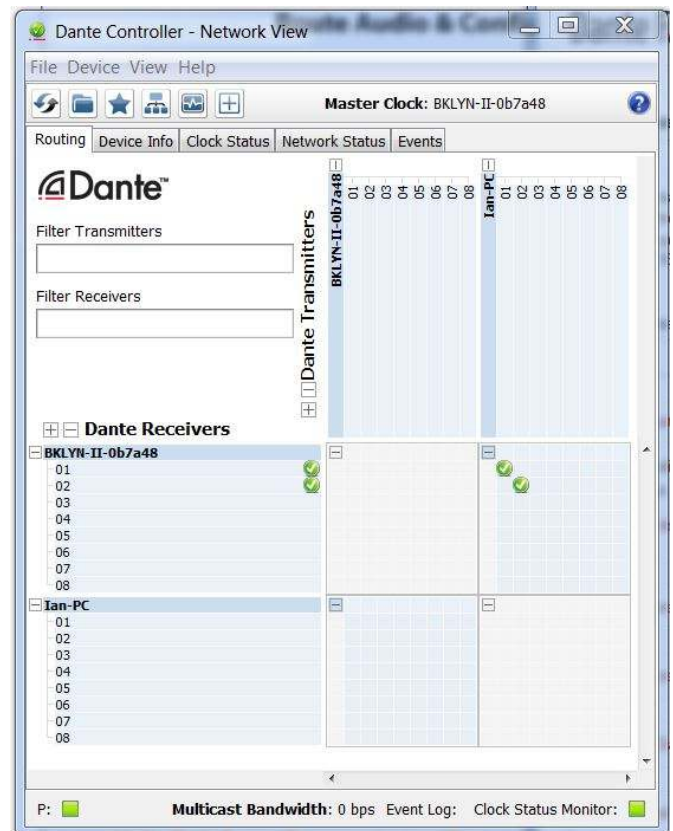
### Overview

#### Dante Controller

Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. With automatic device discovery, one-click signal routing and user-editable device and channel labels, setting up a Dante network couldn't be easier. See the overview for more detail on Dante audio networking.

Dante Controller is much more than just a configuration and routing matrix. Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues. You can also quickly and easily backup, restore, move, and reuse Dante network configurations using Presets, and edit Dante routing configurations offline.

Dante Controller is available for Windows and Mac OS X.



### Features

- View all Dante-enabled audio devices and their channels on the network
- View and edit device clock and network settings
- Route audio between devices, and view the state of existing audio routes
- Rename devices and channels using your own friendly names
- Customize the receive latency (latency before playout)
- Save and reapply audio routing presets
- Edit presets offline, and apply as configurations for new network deployments
- Change sample rates and clock settings
- View multicast bandwidth across the network
- View transmit and receive bandwidth for each device
- View device performance information, including latency stats, clock stability stats and packet errors
- View comprehensive, configurable event logs



## DANTE The DANTE Audio Network Overview

### Overview

*Based on industry standards, Dante is an uncompressed, multi-channel digital media networking technology, with near-zero latency and synchronization. Dante is the preferred audio networking solution that has been adopted by more pro-audio AV manufacturers than any other networking technology. Interoperability is not a dream of the future, but a reality today. Hundreds of Dante-enabled products are available from the world's leading manufacturers, enabling you to mix devices from multiple manufacturers.*

#### Economical and Versatile

One cable does it all. Dante does away with heavy, expensive analog or multicore cabling, replacing it with low-cost, easily-available CAT5e, CAT6, or fiber optic cable for a simple, lightweight, and economical solution. Dante integrates media and control for your entire system over a single, standard IP network.

Dante systems can easily scale from a simple pairing of a console to a computer, to large capacity networks running thousands of audio channels. Because Dante uses logical routes instead of physical point-to-point connections, the network can be expanded and reconfigured at any time with just a few mouse clicks.

#### Outstanding Quality

Since audio is transmitted digitally, you don't have to worry about the common analogue challenges of interference from other electrical equipment, crosstalk between cables, or signal degradation over long cable runs.

#### Easy To Install

Setting up Dante networks couldn't be easier. You no longer have to shudder when considering the deployment of an audio network. Even the most complex networks can be set up and configured quickly and easily with Dante, making system integration simple. Dante automatically handles the technical complexities for you.

Signal routing and system configuration with Dante is fast, simple, and incredibly flexible. Dante Controller is a powerful software application that manages devices on the network. Setting up a Dante network is typically just a matter of plugging devices into an Ethernet switch and connecting a computer to the network. All Dante devices are automatically discovered and displayed in Dante Controller, so you can be up and running in seconds. channels; multicast sends an audio stream to multiple devices simultaneously.





## DANTE

## The DANTE Audio Network Overview

## Overview (cont...)

### Easy to Use

With Dante Controller you can easily edit device names and channel labels, control sample rates, and set device latencies. There is no longer any need to remember device IDs or channel numbers. Instead, a single audio channel is referred to just like an email address: "commentatorA @ studio or "news\_mic @ voboothA". Set it and forget it. Once the network is configured, the computer running Dante Controller can be removed from the network, and reconnected only if changes are required or system monitoring is desired. Signal routing and other system settings are stored safely in the Dante devices themselves, so they are automatically restored if a device is power-cycled.

### Network Health and Management

Real-time information about the health of your network is essential for a proper understanding of its performance. There are a rich suite of diagnostic tools within Dante Controller, providing visibility into the network health status through features such as device latency monitoring, active clock health monitoring, packet error reporting, and bandwidth usage statistics.

### Glitch-Free Redundancy

Many Dante-enabled devices support 'glitch-free' redundancy, enabling a secondary physical network to be provided, duplicating the audio traffic on the primary network. This automatically prevents any audio loss or interruption in the event of a connectivity problem on the primary network.

### Unicast or Multicast

Dante audio channels can be configured as unicast or multicast as appropriate, to make best use of available bandwidth. Unicast provides a direct point-to-point stream for unique channels; multicast sends an audio stream to multiple devices simultaneously.

### Fully Integrated with Windows and Mac OS X

With Dante Virtual Soundcard, your computer becomes a Dante audio interface for multitrack recording and media playback, using the computer's existing Ethernet port — no additional hardware is required. Digital Audio Workstations, software-based media players, Skype, iTunes, Pandora, Spotify and other applications are easily integrated into your network via Dante Virtual Soundcard.



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