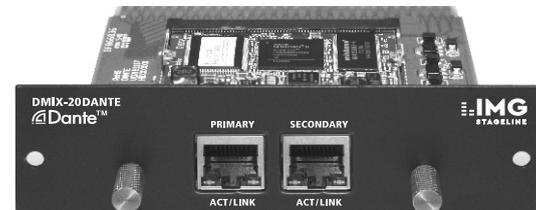




# DMIX-20DANTE

## *User's Manual*

High Performance Networking Audio Transceiver Module



## Introduction

### 1. Feature summary

- Mini-PCI form factor(card edge)
- On-board microprocessor to handle local control and management functions
- Redundant network connections via switch
- Bit depths:32 per sample
- Up to 32\*32 channels at 48kHz
- Up to 32\*32 simultaneous audio streams
- Hardware audio metering
- High-quality,low jitter on-board clock
- Up to 2000 sample audio buffering per channel
- Standard RGMII/MII interface for Ethernet PHY or switch chip
- Software is upgradable over network

### 2. Temperature Characteristics

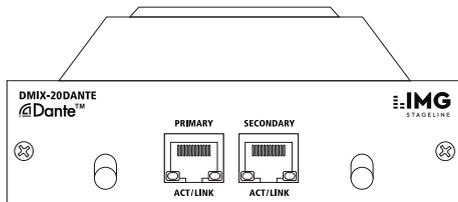
- Operating temperature range : 0° to 70° Celsius
- Recommended storage temperature: -40° to +100° Celsius

### 3. Electrical Characteristics

- Power Supply: 3.3V
- Power Consumption: < 2W

### 4. Interface function instruction

The ACT/LINK port that connects DANTE and PC can play and record in 32 channels.



## Driver install

### 2.Settings

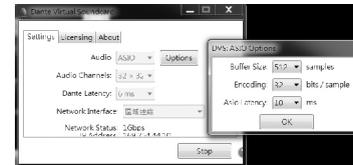
**NOTE:**Most settings cannot be changed while Dante Virtual Soundcard is running, or when an ASIO application is connected.

**NOTE:**The device name and audio interface(sample rate and bit depth) must be set in Dante Controller ,While Dante Virtual Soundcard is running.

To change settings:

1. Completely quit out of any audio applications that are using the Dante Virtual Soundcard.
2. Stop Dante Virtual Soundcard
3. Change your Dante Virtual Soundcard settings.
4. Restart Dante Virtual Soundcard
5. Restart your audio application/s.

Click **Settings** on Dante Virtual Soundcard Control Panel and set up parameters as below:



**NOTE:**Computer with poor scheduling performance will need to use higher settings of Buffer

Size and Asio Latency.

Click Start to start the Dante Virtual Soundcard. When the button shows Stop, it indicates that the Dante Virtual Soundcard is currently running. The icon shows Start, illustrating the Dante Virtual Soundcard is currently stopped. Click the button to toggle the running state of Dante.

## Driver install

- Dante Virtual Soundcard

(1) Starting the Dante Virtual Soundcard Control Panel (Windows)

By default, Dante Virtual Soundcard will be installed in:

C:\Program Files\Audinate\Dante Virtual Soundcard\

In 64-bit Windows, it will appear under C:\Program Files (x86)

The Dante Virtual Soundcard Control Panel can be started in one of two ways:

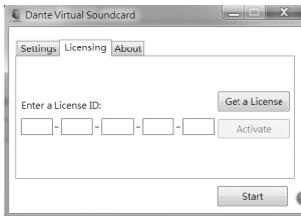
One: using the Start menu: **Start > Programs > Audinate > Dante Virtual Soundcard > Dante Virtual Soundcard**; or

Windows 8: **Windows key > Dante Virtual Soundcard**

Two: navigate to the directory where it is installed, and double-click the Dante

Virtual Soundcard icon:  `dvs_gui.exe`

The first time you start the Dante Virtual Soundcard Control Panel, you will be presented with the Licensing screen.



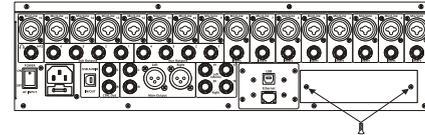
Once you have obtained a License ID, it can be entered in the Licensing tab. The Activate button is not enabled until a correctly formatted License ID has been entered into the dialog box.

**NOTE:** Ensure that your computer has access to the Internet during this step.

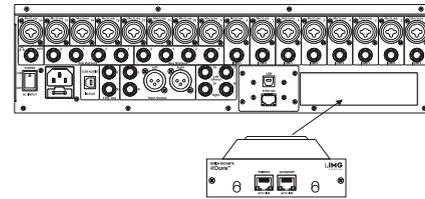


## Installation

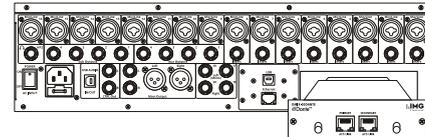
1). Disassemble the 2 screws by the screw driver following the below picture.



2). Disassemble the Module from MIXER.

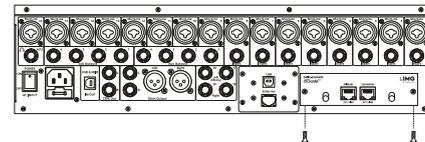


3). Insert the Module on the slots following the below picture and the Module must be on the middle of the slot.



4). Push the module and make it matched with the whole panel.

5). Assemble the 2 screws following the below picture.



## Driver install

### 5. Minimum System Requirement

The tables below list the minimum system specification for your computer to be able to use Dante Controller

**disclaimer** : It is possible that your computer may meet the requirements below, but suffer from some other individual performance limitation related to its particular hardware. Please seek the advice of your computer support administrator.

#### General

Component	Recommended Minimum Requirement
Processor	1GHz or better, Dual core CPU
Memory	1 Gigabyte of RAM
network	A Gigabit(1000 Mbps) Ethernet network interface is required for channel counts above 32x32@48kHz. Wireless LAN(WiFi) Ethernet interfaces are not supported.
Operating System(Windows)	Windows 7 (SP1 and above), 8 and 8.1. NOTE: both UTF-8 and Unicode are supported EXCEPT for host or device names; the DNS standard does not support Unicode for these
Storage /Disk	As is the case with any application of this type, higher transfer rates are required for recording and playing back large numbers of audio tracks to and from disk. Disk speeds of 7200rpm and above are recommended for more than 16 channels of record/playback from disk.

### 6. Softwares to be installed

#### • Dante Controller

##### 1) About Dante Controller

Dante Controller is a software application provided by Audinate which allows users to configure and route audio around Dante networks. It is available for Windows and OS X.

##### 2) Installing Dante Controller

NOTE: Before installing, please turn on Firewall.

**Urgent: requires firmware version 2.4 or higher of the mixer.**

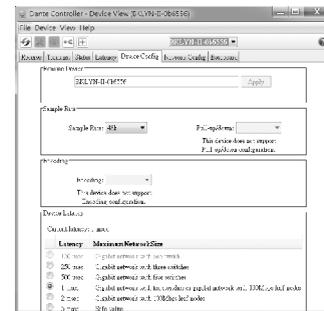
## Driver install



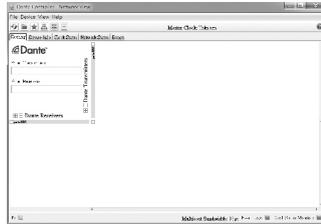
Select the device name of Dante Virtual Soundcard on the screen.



Click **Device Config** to display the configuration of Dante Virtual Soundcard and then change the setting of Dante Virtual Soundcard.



## Driver install



Click [+ ] between different devices to show Tx channels and Rx channels, and click any grid between Tx channels and Rx channels to change the connected state of the two channels .

**NOTE:**There is no sense to click any grid between Tx channels and Rx channels of the same device.



Next , configure audio interface and device name of Dante Virtual Soundcard using Dante Controller. By default, the device name of Dante Virtual Soundcard is user name of your computer.

Click **Device** button on Menu bar , you will be presented with the Device view.

## Driver install

1. Read the license text, and if you accept the terms of the agreement ,click the 'I Agree ...'check- box. If you don't accept the terms,click Close to terminate the installation.



2. Acknowledge/accept any Windows security warning that are displayed.
3. Click **Launch** to start Dante Controller or Click **Close** to finish installing.



### • Dante Virtual Soundcard

#### (1) About Dante Virtual Soundcard

Dante Virtual Soundcard is a software application that turns your PC or Mac into a Dante-enabled device, allowing Dante audio traffic to be transmitted and received using the standard Ethernet port. No additional hardware is required.

**NOTE:** The Dante Virtual Soundcard does not support virtual machines – it must be installed on a computer with a standard Windows or Mac OS X operating system .

## Driver install

### (2) Installing Dante Virtual Soundcard

NOTE: Before installing, please turn on Firewall.

To install:

1. Ensure you are logged on to your PC as an administrator.
2. Double-click the icon for the Dante Virtual Soundcard.

 DanteVirtualSoundcard-3.7.0.22\_windows.exe

3. Read the license text, and if you accept the terms of the agreement, click the "I Agree ..." checkbox. If you do not accept the terms, click Close to terminate the installation.



4. The Network Throttling Management screen is displayed. Audinate advises that you let Dante Virtual Soundcard manage network throttling (the default option).
5. Click **Install**.



## Driver install

6. Acknowledge/accept any Windows security warnings that are displayed.
7. click Launch to start the software application or click Close to finish installing.



- Audio Applications for recording and playback  
Please refer to 'operating\_instructions\_for\_recording\_and\_playback.doc' file.

### 7. Configuration

#### • Dante Controller

##### (1) Starting the Dante Controller

By default, Dante Controller will be installed in: C:\Program Files\Audinate\Dante controller\ In 64-bit Windows, it will appear under C:\Program Files (x86)

The Dante Controller can be started in several ways :

One : using the Start menu: **Start>Programs>Audinate>Dante Controller >Dante Controller**

Two : navigate to the directory where it is installed, and double-click the Dante Controller.



#### Routing:

When Dante Controller is started, it always displays the Routing Tab within the Network View. In this view the network is shown in the form of grid. Devices with Tx channels are displayed along the top row of the grid, and those with Rx channels are displayed along the left-hand column of the grid. Initially a collapsed view is presented; individual channels cannot be seen.