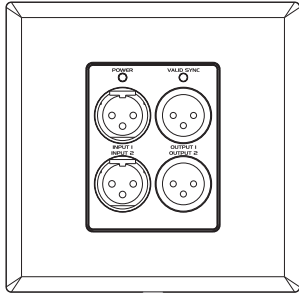


## DIC2223A DIC2223AU

Dante Interface Mic/Line  
2 Inputs x 2 Outputs



### OWNERS MANUAL

## Description

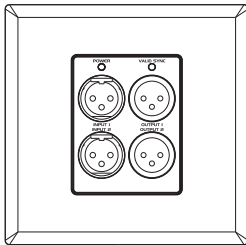
DIC2223A is an excellent quality Dante interface box for converting two Dante channels to Analogue Audio outputs, and two Analogue Audio inputs to Dante network. DIC2223A designed to fit with US style double-gang back box. DIC2223AU designed to fit with European mounting back box.

Simply use Cat5 cable to connect the RJ45 port to an Ethernet switch, and using “Dante controller” to route the low latency of signal to/from other devices which already connected on the same Dante network.

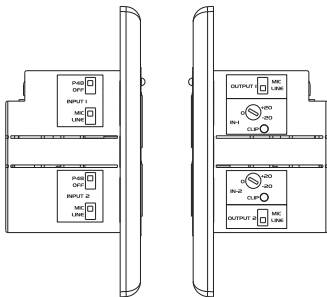
## Features

- Provides Dante Interface for Two Inputs / Outputs
- Two Standard XLR MIC or LINE Audio Channels Convert to Dante Network
- MIC/LINE selectable on Each Input
- Adjustable MIC/Line Gain from -20 dB to +20dB for Each Input Channel
- Switchable 48V Phantom Power On Each Input for Condenser Microphone
- Each Audio Input Signal/Clip LED on Front Panel
- Two XLR Balanced Audio Output Line Level from Dante Network
- Two Output Channels on Rear Panel (corresponding to two XLR outputs)
- High Resolution 24 Bit Converts Analog to Digital and Digital to Analog
- LEDs Indicate the Status for Power and Network Sync on Front Panel
- Powered by External 24VDC Power Supply or PoE
- Normal Operation with PoE Enable Network Switch

## Operation



1. Two XLR inputs, accept MIC or Line audio signal.
2. Two XLR outputs, selectable for MIC or Line audio signal.
3. Power LED indicator.
4. SYNC LED indicates the status of Dante network.



### 5. Input Selector

Line: Accepts Balanced or Unbalanced Line source.

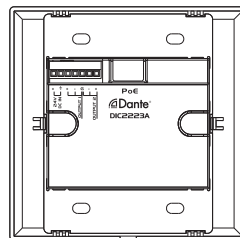
MIC: Accepts the signal of Dynamic or Condenser microphone. P48V: Provides 48V Phantom power when connecting Condenser microphone.

### 6. Output Selector

Set the outputs to Line or MIC with different Gain range.

7. Input Gain Controls: Adjust the Gain level of input signal on each input channel.

8. Signal CLIP LED on each input channel.



### 9. Euro Terminal Outputs:

Converts two Dante channels to analogue Line outputs. These two outputs are parallel to the outputs on front panel.

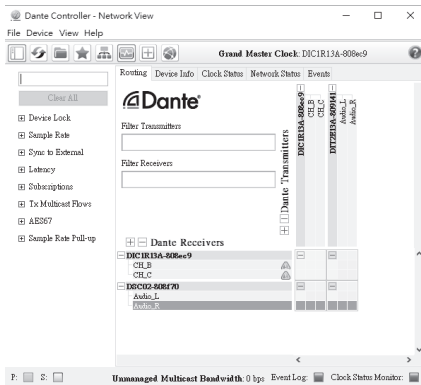
10. RJ45 port: Using Cat5 cable to connect to Dante network.

Note: When using PoE enabled network switch, DIC2223A could be powered and operation from PoE.

11. Power: Connect DC 24V to 2P terminal block or DC input jack. Note: If DC 24V and PoE are both present to DIC2223A, the unit will operate from DC 24V. And when DC 24V removed, the power will switch over to PoE power automatically.

## Dante Controller

DIC2223A is built in Dante interface and compatible with the software “Dante Controller”.



The software “Dante Controller” is free to download from the company of Audinate (the owner of Dante technology). To install the software on the computer, please visit the link: <https://www.audinate.com/products/software/dante-controller>

And the “User Guide” of “Dante Controller” is available on the Audinate website:

<https://www.audinate.com/resources/technical-documentation>

The tables below list the minimum system specifications for the computer to use Dante Controller :

Component	Minimum Requirement
Processor	1 GHz or better
Memory	512 Mbytes RAM
Network	Standard Ethernet network interface (100Mbps or Gigabit) or wireless LAN (Wi-Fi) interface
Operating System	Windows 7 (SP1 and above), 8.1 and 10 NOTE: Both UTF-8 and Unicode are supported EXCEPT for host or device names; the DNS standard does not support Unicode for these
	Mac OS X 10.11.6, 10.12.6 and 10.13 NOTE: Intel architecture only; PPC architecture is not supported

## Specification

### Dante Network to Line /MIC Outputs

Outputs : XLRx2, 5P Detachable Terminal block

Output Level: -10 dBu nominal (Line)  
-10 dBu nominal (MIC)

Output Level: +10 dBu Maximum

Output Voltage: +20dBu (@ 0dB output gain)

Output Impedance: 150 Ω balanced; 75 Ω unbalanced

Frequency Response: 20 Hz to 20 kHz (± 0.5 dB)

THD+N: < 0.1%

Noise: < -75dB

Crosstalk: < 85 dB (20 Hz to 20 kHz)

### Mic/Line Inputs to Dante Network

Mic Inputs

Inputs : XLR x 2

Gain: Condenser microphone : 40 dB

Dynamic microphone : 60 dB

Input Level for +4 dBu: -36 dBu (Condenser)  
-56 dBu (Dynamic)

-36 dBu (Maximum)

Input Impedance: 40 Ω

Phantom Power: 48 V

Frequency Response: 20 Hz to 20 kHz (± 0.5 dB)

THD+N: < 0.1%

Noise below +4 dBu: < -70 dB

CMRR: > 70 dB (50 Hz to 120 Hz)

Crosstalk: < 70 dB (20 Hz to 20 kHz)

### Line Inputs

Inputs : XLR x 2

Input Level for +4 dBu: +4 dBu (balanced); -10 dBV (unbalanced)

Input Impedance: > 40 Ω

Frequency Response: 20 Hz to 20 kHz (± 0.5 dB)

THD+N: < 0.1%

Noise below +4 dBu: < -75 dB

CMRR: > 60 dB (50 Hz to 120 Hz)

Crosstalk: < 75 dB (1 kHz, any line to any mic channel),

< 70 dB (20 Hz to 20 kHz)

Headroom above +4 dBu: > 18 dB

## Dante channel

Transmitters/Receivers: 2/2

Transmission rate: 100 Mbps

Resolution: 16/24/32 Bit

Sampling rate: 44.1 kHz, 48 kHz.

Dante interface: RJ45 jack

Power Connections : 2 Pin Euro Terminal, Power Jack

Power Requirement: 24 Vdc @ 180 mA plus connected phantom loads, or PoE

Dimensions: 116mm(W) × 114.5mm(H) × 53.1mm(D) - DIC2223A  
87mm(W) × 87.5mm(H) × 53.1mm(D) - DIC2223AU

Weight: 0.29 Kgs - DIC2223A  
0.28 Kgs - DIC2223AU