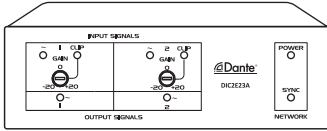


McLELLAND

DIC2E23A

Dante Interface
2 Mic/Line Inputs x 2 Outputs



OWNERS MANUAL

Description

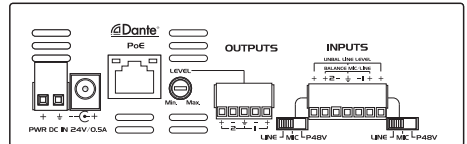
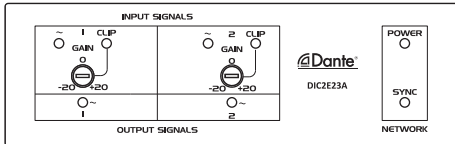
DIC2E23A is an excellent quality Dante interface box for converting two Dante channels to Analogue Audio outputs, and two Analogue Audio inputs to Dante network.

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 MIC or LINE Audio Channels Converts to Dante Network
- * MIC/LINE selectable on Each Input
- * Gain Control on Each Input
- * Gain Control on Output Channels
- * Provides 48V Phantom Power for Each Condenser Microphone Input
- * Accepts Balanced or Unbalanced Signal Inputs
- * Each Audio Input Signal/Clip LED on Front Panel
- * Each Audio Output Signal LED on Front Panel
- * Two Balanced Audio Output Line Level from Dante Network
- * High Resolution 24 Bit Converts Analog to Digital and Digital to Analog
- * LEDs Indicate the Status for Power and Network Sync
- * Powered by External 24VDC Power Supply
- * Normal Operation with PoE Enable Network Switch

Operation

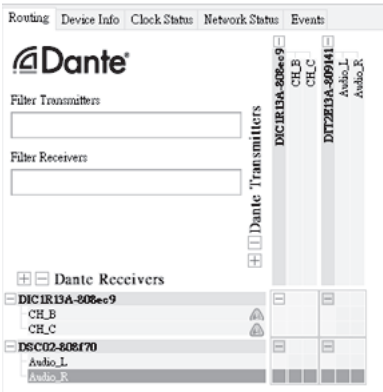


1. Gain Control: Adjust the level of input signal on each input channel.
2. Input signal level LED on each channel.
3. Signal CLIP LED on each input channel.
4. Output signal level LED on each output channel.
5. Power LED indicator.
6. SYNC LED indicates the status of Dante network.

7. Euro Terminal inputs: Two channel inputs accept MIC or Line signal.
8. Input Selector
 - Line: Accepts Balanced or Unbalanced Line source.
 - MIC: Accepts the signal of Dynamic microphone.
 - P48V: Accepts the signal of Condenser microphone, also provides 48V Phantom power for Condenser microphone.
9. Euro Terminal Outputs: Converts two Dante channels to analogue Line outputs.
10. Output level control
11. RJ45 port: Using Cat5 cable to connect to Dante network.
Note: When using PoE enabled network switch, DIC2E23A could be powered and operation from PoE.
12. Power: Connect DC 24V to 2P terminal block or DC input jack.
Note: If DC 24V and PoE are both present to DIC2E23A, the unit will operate from DC 24V. And when DC 24V removed, the power will switch over to PoE power automatically.

Dante Controller

DIC2E23A 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 Level Outputs

Outputs : 5P Detachable Terminal block, Balanced/Unbalanced
Output Level: -10 dBu nominal
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 : 7 Pin Euro Terminal, Balanced
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 : 7 Pin Euro Terminal, Balanced
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: 4/4
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: 143mm(W) × 45mm(H) × 93mm(D)
Weight: 0.7Kg

Connection Diagram

Basically Signal Flow

Input 1~2 → Dante Network → Other Audio Amplifiers

Other Audio Sources → Dante Network → Amplifier 1~2

*The signal of Input 1~2 can not route to Amplifier 1~2

