

Dante<sup>®</sup> Network Intercom

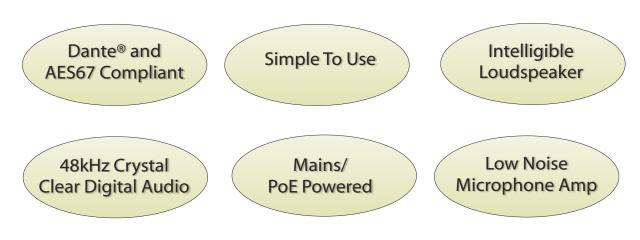
# Dante

Glensound

## BEATRICE DIG

Sixteen Channel Desktop Intercom

Highlights



### **Overview**

Gensound Beatrice IP Intercom

**Dante** 

Glensound Keeps Working The Glensound BEATRICE D16 is a versatile and fully featured 16 channel desktop intercom with crystal clear audio designed for broadcast, theatre and professional audio applications.

It is part of our Beatrice intercom system that utilises the reliable and proven Dante network audio transmission protocol to allow real time distribution of uncompressed audio across standard networks. It is also AES67 compliant. As such the BEATRICE D16 is fully compatible with other manufacturers' equipment using the Dante and/or AES67 protocols.

This desktop intercom was designed to be very easy to use for the operator and simple to set up for the technician. It includes all the basic functionality required for small intercom systems and none of the overly complex installation requirements normally associated with large systems.



### BEATRICE DIG Sixteen Channel Desktop Intercom

### Features



### • 16 Channels Of Intercom

One single user connected to the unit can listen to and communicate with 16 separate locations on the network. Depending upon how the Dante network has been routed the incoming audio circuits and outgoing circuits can be different locations.

### Dante Routing & Partyline

Audio routing to/from other devices is setup using Dante controller which allows for point to multipoint routing on outgoing circuits (but only 1 single incoming circuit for each of the 16 channels). Therefore we've included an inbuilt fixed ratio 11 input 11 output mixer matrix with inputs and outputs connected directly to the Dante / AES67 network which allows for setting up partyline and group circuits.

### Onboard Mic & External Mic Input

A good quality, clear sounding microphone amplifier designed for communication purposes is fitted which also has the benefit of a compressor/ limiter circuit to help keep levels and intelligibility consistent even when the operator gets overly excited. This microphone amp has two microphone sources, either the inbuilt front panel mounted electret capsule which provides good voice intelligibility from normal working distances, or a balanced XLR input for connecting external gooseneck microphones. Twelve Volt Phantom power is also available and can be turned on/off as required via an internal link.

### Large Diameter Visatron Loudspeaker

What's the point of an intercom unit if the onboard speaker is so small and cheap that you can't understand what is being said to you? We use high output, high quality, large magnet Visatron speakers with excellent voice intelligibility to make communication straightforward and easy to understand.



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### • Mains or PoE Powered

An inbuilt wide range switch mode mains power supply is fitted for powering the Beatrice D16. It is terminated with a standard IEC plug, making it easy to plug in wherever you are in the World.

100-240V 50/60Hz 10 Watts

The unit can also be powered via the Ethernet cable by standard PoE (Power over Ethernet) on either of the copper Ethernet ports. The PoE power can be supplied by an external PoE switch or a midspan power injector.



### Redundant Twin Copper & Twin Fibre Ethernet Interface

When ultra reliable communications is needed for the utmost important jobs, glitch free redundant network circuits can be set up using the primary and secondary Dante network ports.

There are 2 copper Ethernet ports on RJ45s and also 2 fibre Ethernet ports presented as SFP slots (SFP modules not included). Redundant networks can be set up across any of these ports. These ports can also be set up as a network switch.

### Microphone Level Meter

An eight LED front panel multipurpose indicator is used to indicate the outgoing microphone level.

### IFB/ AUX Sources

Four different IFB/ AUX audio sources are received from the Dante network. Each of the four sources is associated with four outgoing talkback channels. If audio is routed to the(se) IFB/ AUX sources in the network then they are mixed in with their associated outgoing talkback channel circuit.

If a talkback key is on then the associated IFB/ AUX source is ducked by 20dB; if the talkback is not on then the IFB/ AUX source is routed to the channels output with unity gain.

IFB/ AUX sources are very useful for distributing programme audio around an intercom setup whilst the ducking facility allows talkback to be heard over it.







### Features

### • Channel Input and Output Gain Controls

For maximum flexibility, gain can be applied to incoming audio signals and outgoing signals separately. A row of LEDs indicate the current gain setting when a channel's input or output is being adjusted.

### Monitor

All incoming talkback channels are mixed together to the headphones/ loudspeakers.

### • Presence Indication

Front panel LEDs located next to the talk switches are used to indicate the presence of incoming audio on that channel. When audio is detected on the channel the LED is illuminated, the LED then stays on for a short period after the incoming audio stops to help the operator identify who has been talking to them.

### • Speak To All and Speak To Group

Two useful front panel controls are fitted. When pressed, the 'Speak To All' button will enable the operator to talk to all the outputs simultaneously. The 'Speak To Group' button allows the operator to talk to an easily assignable set of outputs.

### Mixer Matrix For Partyline

For setting up simple groups and partyline circuits that could not be achieved via Dante controller or your AES67 router, an inbuilt fixed ratio mixer is supplied. It has 11 audio inputs direct from the network and 11 mix outputs to the network.

MIX OUTPUT		SUM OFF
Dante Output Channel No:	Default Name in Dante Controller:	Dante Receiver Channel Nos:
22	"Sum of 23 to 32"	23 to 32
23	"Sum of 23 to 27 "	23 to 27
24	"Sum of 28 to 32"	28 to 32
25	"Sum of 23 to 25"	23 to 25
26	"Sum of 26 to 29 "	26 to 29
27	"Sum of 30 to 32 "	30 to 32
28	"Sum of 23 & 24 "	23 and 24
29	"Sum of 25 & 26 "	25 and 26
30	"Sum of 27 & 28 "	27 and 28
31	"Sum of 2 9 & 30 "	29 and 30
32	"Sum of 31 & 32 "	31 and 32



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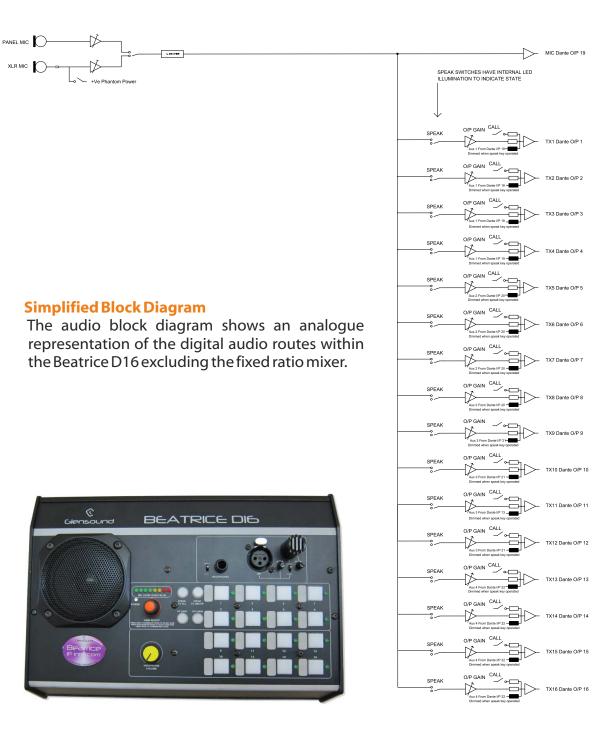
Sixteen Channel Desktop Intercom

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# Glensound Beatrice IP Intercom



Block Diagram of Audio Sent to The Dante®/ AES67 Network



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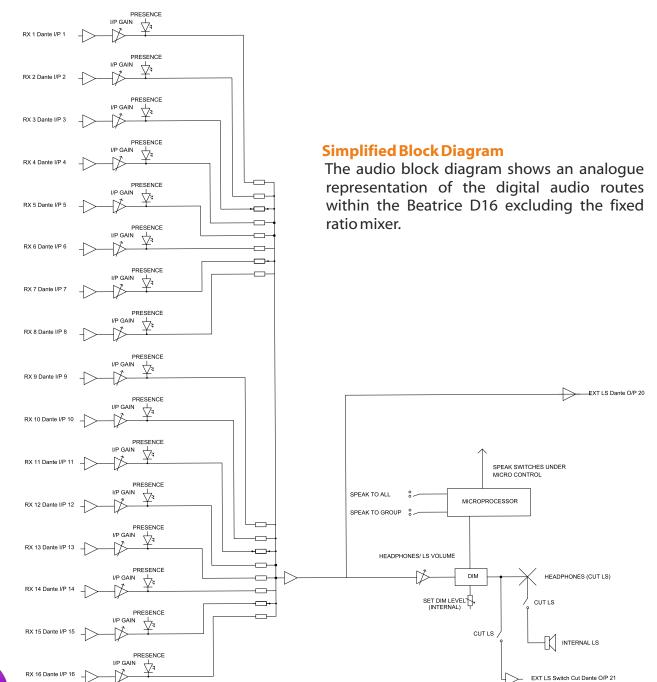


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### Block Diagram of Audio Received From The Dante<sup>®</sup>/ AES67 Network





Please note that unlike the lower channel count Beatrice units (B1, B2, B4, D4, R4, D8, D8+, P1, P2 and R8) the 16 key units D16 and R16 do not support inband calling.



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Physical Interface

2 off RJ45 2 off SFP slots

Audio Sample Frequency 48k Transfer Rate

1000 Mbps

Dante® Chipset

Brooklyn II Note: suitable for acting as master clock for a network incorporating many Ultimo chipsets AES67 Compliant

### AUDIO

**Mic Gain Range** 

61 to 21dB

**Phantom Power** 

12 Volts (set via internal link) Equivalent Input Noise

-126dB (20-20Khz RMS A Weighted 150 Ohms)

Headphone Impedance

32 - 1000 Ohms Max Headphone Output Level +14dB into 600 Ohms Headphone Connector 6.35mm (1/4") TRS socket Band Pass Filter 50Hz to 15kHz

INCLUDED ITEMS

### Handbook

Physical A5 (download also available) **RJ45 Network Cable** 2 metre Cat5 RJ45plug /RJ45plug cable **Mains Cable** 

2 metre IEC (UK & Europe Only)

### **MIC/ HEADSET OPTION**

Standard (Part no: Beatrice D16) Front Panel 3 pin XLR socket Mic Input Optional 5 Pin (Part no: Beatrice D16-X5) Front Panel 5 pin XLR socket Headset Connector Optional 4 Pin (Part no: Beatrice D16-X4) Front Panel 4 pin XLR plug Headset Connector

### **Specification**

### POWER

### **Mains Voltage**

100 - 240 VAC +/-10%

**Mains Frequency** 

50 to 60 Hz

### Power over Ethernet (PoE)

May be powered by PoE on either Copper Port Complies to: IEEE 802.3af-2003 Classification Class 0

Consumption

<12 Watts

### Redundancy

Mains & Both PoE supplies are all dioded together for glitch free redundancy

Power On LED

Bright Blue

### PHYSICAL

### Mechanics

All aluminium with laser etched panels and light textured black powder coated base & sides

Size

269 x 172 x 100mm (w x d x h)

Weight 1.6Kg 3.5lb

### **ENVIRONMENTAL**

**Operating Temperature** 

0 to +50 °C (32 to 122°F)

**Storage Temperature** -20 to +70 °C (-4° to 158°F)

**Relative Humidity** 0 to 95% non-condensing

### SHIPPING SPECIFICATIONS

Weight: 3.10Kg

Shipping Size: 290x230x270mm

**Shipping Carton** 

Rugged export quality cardboard

The name Beatrice was chosen for our intercom range as she was the love of Dante Alighieri:

'Dante had fallen in love with another, Beatrice Portinari (known as Bice), whom he first met when he was only nine.' Source Wikipedia.

We hope that you will also fall in love with Beatrice.