# 1100DAB

**DIGITAL AUDIO BRIDGE**


## TECHNICAL DATA SHEET

## PRODUCT SUMMARY

The **1100DAB Digital Audio Bridge Family** provides ultra low latency, multi channel audio bridging for GLOBALCOM® controller systems. Each 1 RU chassis features dual redundant Gigabit Ethernet links, seamlessly configurable via GCK. Designed for adjacent audio zones, it ensures synchronous audio transport across CobraNet® and Dante® infrastructures eliminating echo and timing delays.

## 3 MODELS AVAILABLE

**IED1100DAB (CobraNet > CobraNet)**
Supports **8×8 CobraNet channels** to bridge multiple CobraNet GLOBALCOM controllers, delivering deterministic millisecond-level latency.

**IED1100DAB CD (CobraNet < > Dante)**
Supports **8×8 channels**, linking a CobraNet GLOBALCOM controller to a Dante GLOBALCOM controller, maintaining tight sync and minimal latency.

**IED1100DAB DD (Dante > Dante)**
Supports **16×16 Dante channels**, connecting two Dante GLOBALCOM controllers with ultra low microsecond-scale latency.

## FEATURES

- **Ultra Low Latency & Synchronization** – Ensures tight audio alignment with millisecond (CobraNet) or microsecond (Dante) precision, avoiding audible echo in adjacent zones.
- **Dual Redundant Ethernet** – Provides network reliability and coexistence with standard data traffic, ensuring uninterrupted audio delivery.
- **Seamless GLOBALCOM Integration** – Fully compatible with CobraNet and Dante GLOBALCOM controllers, easily configured and managed through GCK.
- **Legacy-to-Dante Migration** – The CD model enables smooth protocol transition from CobraNet to Dante without sacrificing timing accuracy.
- **High-Channel Dante Systems** – The DD model supports large Dante-based installations requiring expanded audio capacity and microsecond scale latency.

## APPLICATIONS

- **Airports**
- **Mass Transit**
- **Large Campus**

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## TECHNICAL SPECIFICATIONS

| Electrical | |
|---|---|
| Supply Voltage | 12 VDC |
| Rated Input Current | IED1100DAB – 400mA (4.8 W)<br>IED1100DAB-CD – 583 mA (7.0 W)<br>IED1100DAB-DD – 767 mA (9.2 W) |

| Connections | |
|---|---|
| Power | 1x Removable Locking Euroblock<br>2 Pin 3.81 mm Pitch |
| Ethernet | 4x RJ-45 Jacks<br>2 Pair Redundant Digital Audio<br>Speed: 100 Mbps |

| Mechanical | |
|---|---|
| Rack Mount Requirements | 1 RU, 19" |
| Unit Dimensions (without Rack Ears) (HxWxD) | 1.75" x 17" x 12.25"<br>45mm x 432mm x 311mm |
| Unit Dimensions (with Rack Ears) (HxWxD) | 1.75" x 19" x 12.25"<br>45 mm x 483mm x 311mm |
| Unit Weight | 4.92 kg (10.85 lb) |

| Environmental | |
|---|---|
| Operating Temperature | 0°C - 50°C (32°F - 122°F) |
| Storage Temperature | -20°C - 70°C (-4°F - 158°F) |

| Regulatory | |
|---|---|
| Safety | IEC/CSA/UL 62368-1 |

| Warranty | |
|---|---|
| Warranty Period | 36 Months |

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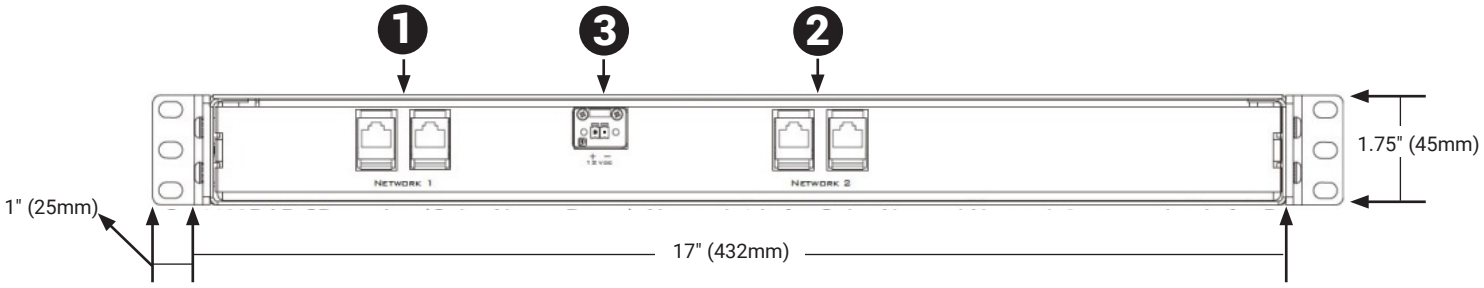
### DIMENSIONAL DRAWING - (BACK VIEW)

1. Network 1 Dual Redundant Ethernet Connections
2. Network 2 Dual Redundant Ethernet Connections
3. +12VDC Power Supply Input




**Note:**

On IED1100DAB-CD version, *Network 1* connection is for CobraNet and the *Network 2* connection is for Dante.

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## TECHNICAL DATA SHEET

### ARCHITECT & ENGINEER SPECIFICATIONS

The IED1100DAB Digital Audio Bridge family shall be designed for ultra low latency audio bridging between GLOBALCOM® controller systems across Ethernet networks or VLANs. The unit shall occupy 1 RU in a standard 19" equipment rack and be configurable via the GCK Application. The device shall be powered by 12 V DC, supplied through a removable locking 2 pin Euroblock connector.

Four RJ 45 jacks shall provide two pairs of redundant network links. For CobraNet models (IED1100DAB and IED1100DAB-CD), the CobraNet Ethernet interface shall operate at 100Mbps Ethernet (100Base T), while the Dante interface (on IED1100DAB-CD and IED1100DAB-DD) shall support Gigabit Ethernet (1000Base T).

The IED1100DAB-CD and IED1100DAB-DD models shall support 8×8 audio channels, while the IED1100DAB-DD model shall support 16×16 channels. Versions with CobraNet (IED1100DAB and IED1100DAB-CD) shall provide millisecond-level latency, and the Dante only version (IED1100DAB-DD) shall provide microsecond-level latency.

The chassis dimensions, excluding rack ears, shall be 1.75" × 17" × 12.25" (45 × 432 × 311 mm), extending to 19" width with ears installed; unit weight shall be approximately 4.92 kg (10.85 lb). The device shall comply with IEC/CSA/UL 62368 1 safety standards and include a 36 month limited warranty.

Functionally, the device shall bridge synchronous audio streams without introducing audible echo or delay, ensuring deterministic alignment between adjacent zones. Dual-redundant Ethernet interconnects shall ensure uninterrupted audio in the event of a link failure. Configuration and management shall be performed through GCK Application, with full compatibility across CobraNet- and Dante-based GLOBALCOM architectures.