IED1100DAB

DIGITAL AUDIO BRIDGE

TECHNICAL DATA SHEET

PRODUCT SUMMARY

The **IED1100DAB Digital Audio Bridge** 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

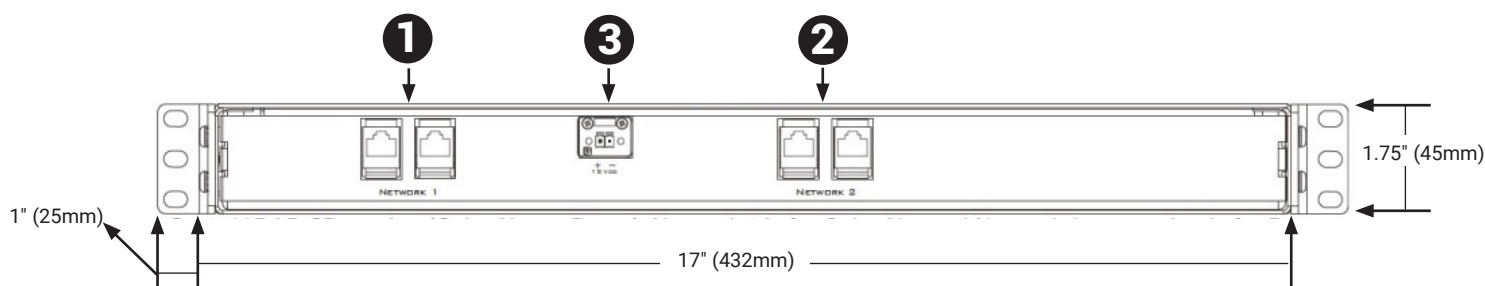| Electrical	
Supply Voltage	12 VDC
Rated Input Current	IED1100DAB – 400mA (4.8 W) IED1100DAB-CD – 583 mA (7.0 W) IED1100DAB-DD – 767 mA (9.2 W)

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

Mechanical	
Rack Mount Requirements	1 RU, 19"
Unit Dimensions (without Rack Ears) (HxWxD)	1.75" x 17" x 12.25" 45mm x 432mm x 311mm
Unit Dimensions (with Rack Ears) (HxWxD)	1.75" x 19" x 12.25" 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 1100DAB CD version (**CobraNet > Dante**), *Network 1* connection is for CobraNet and *Network 2* connection is for Dante.

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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 and IED1100DAB CD 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.

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