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## LBB 4404/00 CobraNet Interface



- ▶ **Four CobraNet™ audio inputs**
- ▶ **Four CobraNet™ audio outputs**
- ▶ **Eight supervised control inputs and five control outputs**
- ▶ **Redundant Praesideo network connection**
- ▶ **Redundant CobraNet™ network connection**
- ▶ **Headphone connection and VU-meter for audio monitoring**

CobraNet™, developed by Peak Audio, is a network protocol for real-time uncompressed digital audio distribution over industry standard 100Base-T Ethernet networks. Typical applications are room coupling and audio distribution over long distances.

CobraNet™ audio channels can be configured as inputs to a Praesideo system, where they can be routed permanently or conditionally to any of the zones or audio outputs. The routing conditions are configured using the configuration software. Calls and background music (BGM) sources can be routed to CobraNet™ channels. Digital audio data is directly converted between an audio system and CobraNet™, with no other audio processing than sample rate conversion. Control inputs and outputs are provided for external interfacing. The equipment can be used free-standing (tabletop) or in a 19" rack.

CobraNet™ is a registered trademark of Peak Audio, a Division of Cirrus Logic, Inc.

### Functions

The Praesideo CobraNet™ Interface can simultaneously interface up to four digital audio channels from CobraNet™ into an audio system and up to four audio channels from an audio system into a CobraNet™ network. This includes converting between the 44.1 kHz sample rate used by Praesideo, and the 48 kHz sample rate that CobraNet™ uses, as well as conserving volume levels. It can also route audio channels between itself and other CobraNet™ Interfaces, in the same or in other audio system networks, or to third party CobraNet™ units. Only audio channels are routed via the interface, not control data. This means that if units are used to link multiple systems, a PC master must always access the network controllers through their open interfaces for control purposes.

The eight control inputs are freely programmable for system actions, and priorities can be assigned to these inputs. Five control outputs are freely programmable for faults and call-related actions. Control inputs can also be programmed for momentary or toggle operation using the configuration software. Each control input has the ability to monitor the attached line for open and short-circuits.

The 2 x 16-character display and the rotary control enable local status enquiries. The display shows the VU-meter reading when the audio monitoring mode is active. Audio can be monitored by headphone.

The interface supports redundant network cabling of both an audio system and CobraNet™ networks. It gets its power from the network controller via the network cable. The unit is self-monitoring and continually reports its status to the network controller.

**Controls and indicators**

- 2 x 16 character LCD status display
- Rotary/push control for menu control and headphone volume

**Interconnections**

- Two optical network connections
- Two RJ45 Ethernet connectors for the CobraNet™
- Eight control inputs to enable audio inputs and audio outputs
- Five control outputs to indicate channel engaged state
- One headphone output 3.5 mm (0.14 in) stereo

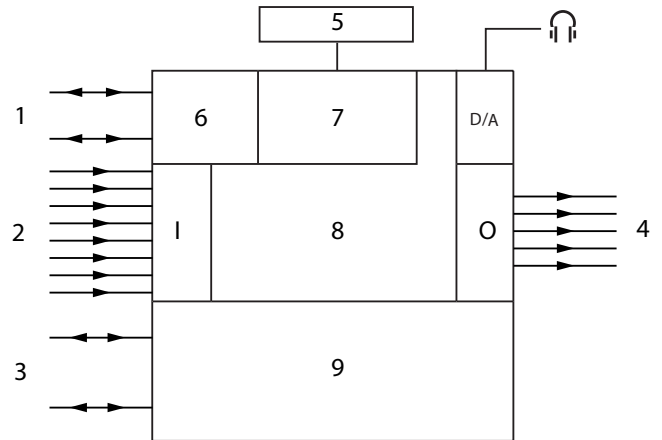


Rear view

**Certifications and Approvals**

Region	Certification
Europe	CE
	TUEV-SUED TUV Certificate IEC60849
	GL GL-SOLAS
Safety	acc. to IEC 60065 / EN 60065
Immunity	acc. to EN 55103-2 / EN 50130-4 / EN 50121-4
Emissions	acc. to EN 55103-1 / FCC-47 part 15B
Emergency	acc. to EN 60849 / EN 54-16 / ISO 7240-16
Maritime	acc. to IEC 60945

**Installation/Configuration Notes**



- 1 Ethernet network
- 2 Control inputs
- 3 Plastic optical fiber network
- 4 Control outputs
- 5 Display and control
- 6 CobraNet™ interface
- 7 Sample rate conversion
- 8 Network processor and DSP
- 9 Network redundancy switching

**Parts Included**

Quantity	Component
1	LBB 4404/00 CobraNet Interface
1	Set of mounting brackets for 19" rack
1	Set of feet
1	Set of connectors

**Technical Specifications**

**Electrical**

Supply voltage	24 to 48 VDC
Power consumption	11 W (DC)
Audio Transport	Ethernet
Channels	4 in / 4 out per interface Max 64 on CobraNet™
Compliance	IEEE 802.3
Audio Transport	16 / 20 / 24-bit
Sample Rate	48 kHz
Latency	5.33 ms
Integrity assurance	Watchdog
<b>Control inputs</b>	8 x
Connectors	Removable screw terminals

Operation	Closing contact (with supervision)
<b>Control outputs</b>	5 x
Connectors	Removable screw terminals
<b>Mechanical</b>	
Dimensions (H x W x D)	
for tabletop, with feet	92 x 440 x 400 mm (3.6 x 17.3 x 15.7 in)
for 19" rack, with brackets	88 x 483 x 400 mm (3.5 x 19 x 15.7 in)
in front of brackets	40 mm (1.6 in)
behind brackets	360 mm (14.2 in)
Weight	6 kg (13.2 lbs)
Mounting	Tabletop, 19"-rack
Color	Charcoal (PH 10736) with silver
<b>Environmental</b>	
Operating temperature	-5 °C to +55 °C (23 °F to +55 °F)
Storage temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Humidity	15% to 90%
Air pressure	600 to 1100 hPa

### Ordering Information

**LBB 4404/00 CobraNet Interface**      **LBB4404/00**  
network protocol for real-time uncompressed  
digital audio distribution over industry stand-  
ard 100Base-T Ethernet networks.

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