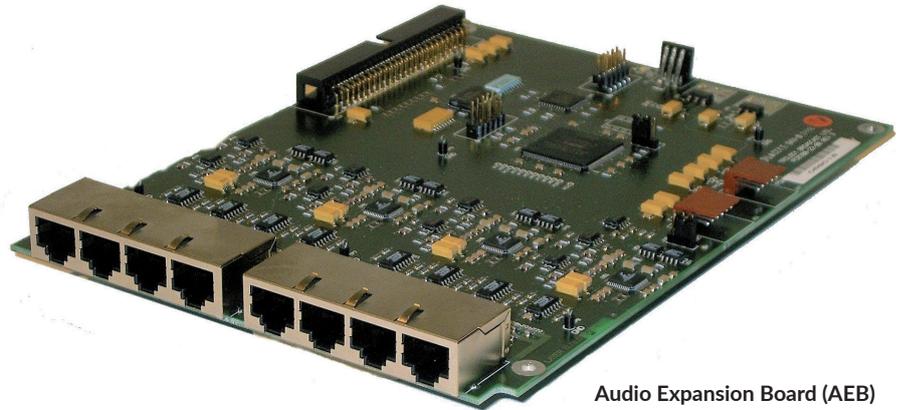


Key Features

- Optional interface for Mercury Interface Units (MIUs)
- Provides standard interface for analog inputs and outputs
- Enabled connection of up to 8 User Panels per interface
- Up to four Audio Expansion Boards per MIU
- Each card has an 8-port capacity
- Balanced and unbalanced audio input and output
- Software-programmable input and output level adjustments for each port
- RJ45 connectors for simple cable construction
- Ideal for extending analog audio communications over IP



Audio Expansion Board (AEB)

The Audio Expansion Board (AEB) is an optional interface that provides analog inputs and outputs for Mercury Interface Units.

Description

The Audio Expansion Board (AEB) is an optional interface board that provides a standard interface for Mercury hardware panels and analog audio inputs and outputs. Once an AEB interface is added, hardware panels can be connected to enable seamless voice communication between the panels and any other Mercury operator. Optionally, connected analog voice circuits can be made accessible to any device throughout the Mercury system.

Operation

Each AEB has eight RJ45 connectors and up to four AEB cards can be added to a Mercury Interface Unit (MIU). These ports can be used to enable the use of Mercury hardware panels, interface with other analog audio equipment or stream one or more channels of audio to a voice recorder.

Technical Specifications

Audio Interface

Number of ports: 8 per card. Max of 4 option cards per MIU

Type: Balanced audio on RJ45

Audio Input

Frequency response: 20Hz to 20kHz (16kHz sampling)

Nominal input level: 0dBu

Maximum input level: +20dBu

Input level adjustment: Via software from -10.5dB to +12dB

Audio Output

Input impedance: > 10k Ω

Frequency response: 20Hz to 20kHz (16kHz sampling)

Type: Electronically balanced on RJ45 connector

Output impedance: < 20 Ω

Nominal output level: 0dBu

Maximum output level: +20dBu

Output level adjustment: Via software from -34.5dB to +12dB including full mute option

Distortion: <0.05% when routed locally

Noise: < -60dB un-weighted

Panel Data

Type: RS422 balanced data, directly coupled

Data Rate: 230400 baud, 8 data bits, 2 stop bits, 1 start bit, no parity

Protocol: Proprietary

Recommended cable type: CAT6 STP

Maximum cable length: 300m

RJ45 Connector Pinout

Pin 1: RS422 Data In +

Pin 2: RS422 Data In -

Pin 3: RS422 Data Out +

Pin 4: Audio In -

Pin 5: Audio In +

Pin 6: RS422 Data Out -

Pin 7: Audio Out +

Pin 8: Audio Out -

Environmental

Operating Temperature: 32 to 122°F (0 to 50°C)

Storage Temperature: -4 to 185°F (-20 to 85°C)

Operating Humidity: 0 to 90%, non-condensing, relative humidity

Dimensions

5.5 x 0.67 x 8.1 in (WxHxD)
(140 x 17 x 202 mm)

Weight

7.1 oz (200 g)

Reliability

MTBF: 80,000 hours

Order Code

700-11-01