

## Key Features

- Hybrid, single board solution supports both MADI and AES interfaces
- MADI I/O via standard BNC and optical fiber connections
- Standard 48kHz sample rate
- Configurable MADI output timing & AES sample rate
- AES / MADI audio pairs may be combined as a single channel mono mix
- Channel status and User bits can be set independently for each output channel



The MADI/AES interface board is one of the option cards available for the Gemini™ Intercom system.

### Description

The new MADI / AES interface board for Trilogy's Gemini matrix allows audio signals in either MADI or AES format-or in any combination of the two-to be seamlessly integrated with the intercom network. A broadcast intercom typically needs to interface between various audio systems, such as consoles or routers, and the operational team including presenters, commentators, cameramen and even remote sites via telecommunications devices.

The board supports four AES-3 balanced inputs and outputs presented on a D25 connector with one MADI (AES-10) unbalanced I/O made available via BNC and optical fiber connections. Timing of the MADI output stream is configurable, allowing versatile system timing. Similarly, the sample rate of the AES outputs may be referenced to the input or to Gemini's internal bus. The board can also enable any AES / MADI audio pair to be combined as a mono mix so that both channels can be transported to any of Gemini's matrix ports or IP channels.

## Technical Specifications

### Input

**MADI:** 1, MADI (AES-10) input. Impedance 75Ω

**AES-3:** 4, AES-3 input (balanced). Impedance 110Ω

### Output

**MADI:** 1, MADI (AES-10) output. Impedance 75Ω

**AES-3:** 4, AES-3 output (balanced). Impedance 110Ω

### Other

**Resolution:** 16 bit

**Sample rate:** 48kHz

### Control

**MADI Output Timing:** Any MADI or AES-3 input pair may be combined as single channel mono mix

Configurable, either derived from Gemini TDM bus, wordclock or received MADI input

**AES-3 Sample Rate Timing:** 48kHz only. Configurable, either from AES-3 input or the Gemini TDM bus

### Ancillary

**Channel Status Bits:** May be set independently for each output channel

**User Bits:** May be set independently for each output channel

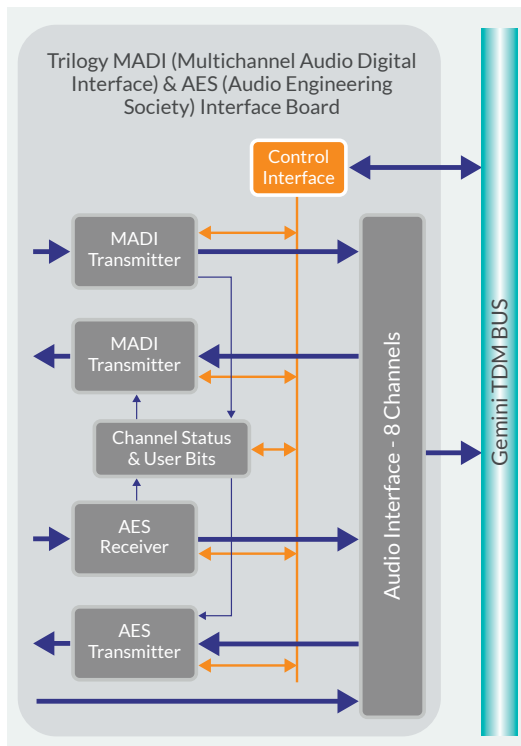
### Connectors

**MADI input:** BNC & optical fiber (1300nm multimode) via LC connector

**MADI output:** BNC & optical fiber (1300nm multimode) via LC connector

**Wordclock:** BNC

**AES-3:** I/O 25 pin D25 skt (Yamaha standard pin out)



## Order Codes

**700-26-21:** MADI /AES Expansion Board

*Provides MADI I/O via both co-axial (BNC) & Fiber (1300nm multimode - LC connectors) plus 4 x AES balanced via D25 skt*