

# MADI-2

## Multichannel Audio Digital Interface Card

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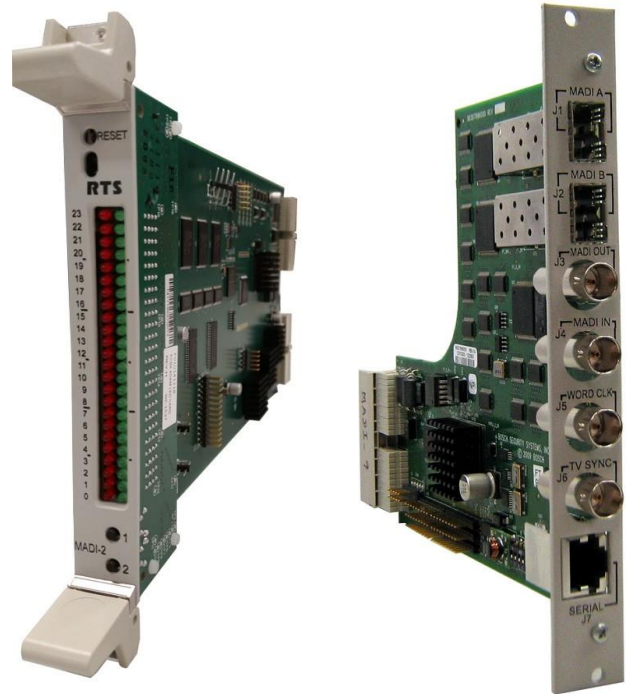
### General Description

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The MADI-2 card expands the ADAM system configuration capabilities by utilizing MADI (Multi-channel Audio Digital Interface) technology to connect any AES-10 compliant device over coaxial or fiber connections at sampling rates of 44.1kHz and 48kHz.

The MADI-2 is fully scalable, allowing 16 to 64 channels of audio in and out. It supports hot-swapping and can be configured through the RTS AZedit configuration software.

The MADI-2 card allows audio connections between intercom frames or other MADI devices, and has an RS-232/485 serial connection for serial pass-thru port connections. It also supports an optional fiber connection that allows for both multi-mode and single mode options with a range up to 9.32 miles (15 km) between ADAM frames.



### Features

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- The MADI-2 is hot-swappable and installs in any available slot in an ADAM Intercom System.
- Includes an RJ-45 connection for an RS-232 or RS-485 pass-thru serial port
- Provides 16 to 64 individually addressable audio channels. Each initial MADI card has 16 channels, with additional channels available for purchase in increments of 16.
- Word Clock and TV interfaces allow seamless synchronization of many different audio sources.
- With a Fiber Optic connection, the MADI-2 provides up to 9.32 miles or 15 km between ADAM systems.
- The MADI-2 supports supplemental data control for use with the RTS' Intelligent Trunking.
- The pass-thru serial port provides a virtual serial connection over a MADI connection using an RJ-45 connection.
- Adjustable I/O gain, using AZedit Intercom Configuration software. Adjust the I/O gain from -20dB to 20dB in increments of .5dB

# Specifications

## Power

Input Power.....3.7 Amps at 5 V (Combined)  
Power Consumption ..... 18.7 W

## Audio

Audio Performance.....Nominal THD+N at 1 kHz < 0.1%  
Frequency Response..... Within  $\pm 1$  dB from 40 Hz - 20 kHz

## Channel Support

56 Channel and 64 Channel

## Environmental

### Weight

Front Card ..... 0.72 lb (0.33 kg)  
Back Card..... 0.42 lb (0.19 kg)

### Temperature

Operating..... 0°C to 50°C (32°F to 122°F)  
Storage..... -40°C to 70°C (-40°F to 158°F)

## Connections

Type: Word Clock BNC (For best results use RG59/U 75 Ohm cable)

Sample Rate.....48 kHz / 44.1 kHz

Type: TV Sync BNC (For best results use RG59/U 75 Ohm cable)

TV Signal Input .....1 V p-p

Type: NTSC

Blank Sync ..... ~15.734 kHz

Type: PAL

Sync..... 15.750 kHz

Type: Fiber Optic (LC Connector or Single Mode) Single mode 1300 nm wavelength included.

Distance ..... 15 km (9.32 mi)

Type: Serial Pass-Through Port

RS232/485 using an RJ-45 connector

