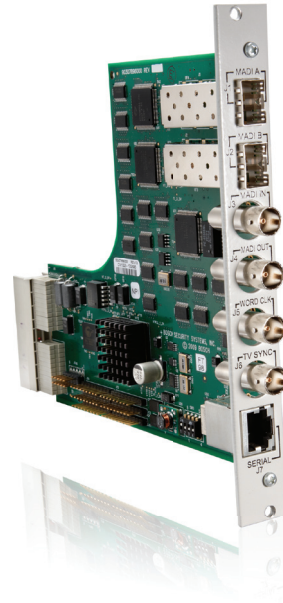


## MADI-16 Plus Card Multichannel Audio Digital Interface Card

The MADI-16 Plus card expands the ADAM system configuration capabilities by utilizing MADI (Multichannel Audio Digital Interface) technology to connect any AES-10 compliant devices over coaxial or fiber connections at sampling rates of 44.1kHz and 48kHz. Unlike the RVON devices, the MADI-16 Plus has a point-to-point configuration which provides for little or no delay in the transmission of audio across lines.

The MADI-16 Plus is fully scalable allowing 16 to 64 channels of audio IN and audio OUT. And, it supports all standard, hot-swappable and configurable features through RTS' AZedit configuration software.

The MADI-16 Plus card allows audio connections between intercom frames and has RS232/485 via an RJ45 serial connection for a serial pass-through port connection. It also allows for fiber connections that offers a single mode connection with a range of up to 9.32 miles or 15km between ADAM frames.



## Features

### Installation

The MADI-16 Plus is hot-swappable and installs in any available slot in an ADAM Intercom System.

### Scalability

Provides 16-64 individually addressable audio channels.

### Word Clock and TV Sync Interfaces

Two external references

### Trunk Capable

The MADI-16 Plus supports supplemental data control for use with RTS Intelligent Trunking.

### AZedit Configurations

Users have the ability to configure the audio parameters of each MADI channel in AZedit.

### Pass-Thru Serial Port

Provides a virtual serial connection over the MADI connection using an RJ45 connector.

# MADI-16 Plus Card Specifications

## Power

- **Input Power**  
5.2 Amps @ 5V  
(MADI Front/Back Card Combined)
- **Power Consumption: 26W**

## Audio Performance

- **THD+N at 1KHz, 0.4%**
- **Frequency Response**
- **Within  $\pm 1$ dB from 20Hz - 20kHz**
- **Channel Support**  
56 Channels  
64 Channels

## Connections

- **Type: Word Clock BNC Connector**  
Sampling Rate  
48KHz  
44.1KHz
- **Type: TV Sync BNC Connector**  
TV Signal Input  
1 Volt p-p
- **Type: Fiber Optic**  
LC Connector  
Single Mode  
Distance: 15km (9.32 miles)
- **Type: Serial Pass-Through Port**  
RS232/485  
using an RJ-45 connector

## Requirements

- **AZedit v3.8.0 or later**
- **Master Controller v2.2.0 or later**
- **If using a multi frame system, with DBX:**
- **DBX v1.23.0 or later**
- **Periphll-e v 1.23.0 or later**

## Environmental

- **Weight**  
Front Card: 0.88lbs (0.40kg)  
Back Card: 0.42lbs (0.19kg)
- **Temperature**  
Operating: 0°C to 50°C (32°F to 122°F)  
Storage: -40°C to 70°C (-40°F to 158°F)

A. Use RG59/U 75 Ohm cable type for best results

## Ordering Information

MADI-16 Card F01U169843  
MADI-32 Card F01U169844  
MADI-48 Card F01U169845  
MADI-64 Card F01U169846

## Ordering Information

MADI-16 to 32 Upgrade F01U169847  
MADI-16 to 48 Upgrade F01U169848  
MADI-16 to 64 Upgrade F01U169849  
MADI-32 to 48 Upgrade F01U169850  
MADI-32 to 64 Upgrade F01U169851  
MADI-48 to 64 Upgrade F01U169852

This specifications information is preliminary and is subject to change without notification.  
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