

64-channel Capable 16-channel  
MADI Interface Card

## MY16-MD64



16-channel Expansion Card

## MY16-EX



### A Plug-in, Expandable Solution for MADI Multi-channel Audio Networking

More and more professional audio applications are adopting the MADI digital audio interface because of its reliability and long-distance capability. The reliability and simplified installation and maintenance provided over long distances makes MADI an ideal choice for multi-room production facilities, outdoor broadcast venues, large live sound and recording applications, and more.

With a single Yamaha MY16-MD64 card you can add 16 channels of MADI input and output connectivity to a range of Yamaha pro audio devices that accept mini-YGDAI expansion cards. Simply add one, two, or three MY16-EX expansion cards to the core MY16-MD64 card to increase the MADI channel capacity to 32, 48, or 64 channels.

A single MADI link provides unidirectional transmission, so the MY16-MD64 card is provided with independent input and output connectors in both coaxial and optical formats. Full bidirectional transfer of up to 64 channels can be achieved with just two thin cables. Coaxial cables can be used for runs of up to 100 meters, while optical connections allow audio data to be reliably transmitted for up to 2,000 meters. The MY16-MD64 card also provides failsafe redundancy with automatic switching from optical to coaxial inputs and outputs in case of accidental disconnection. The optical interface provides total isolation from electromagnetic noise and interference, which can be a huge

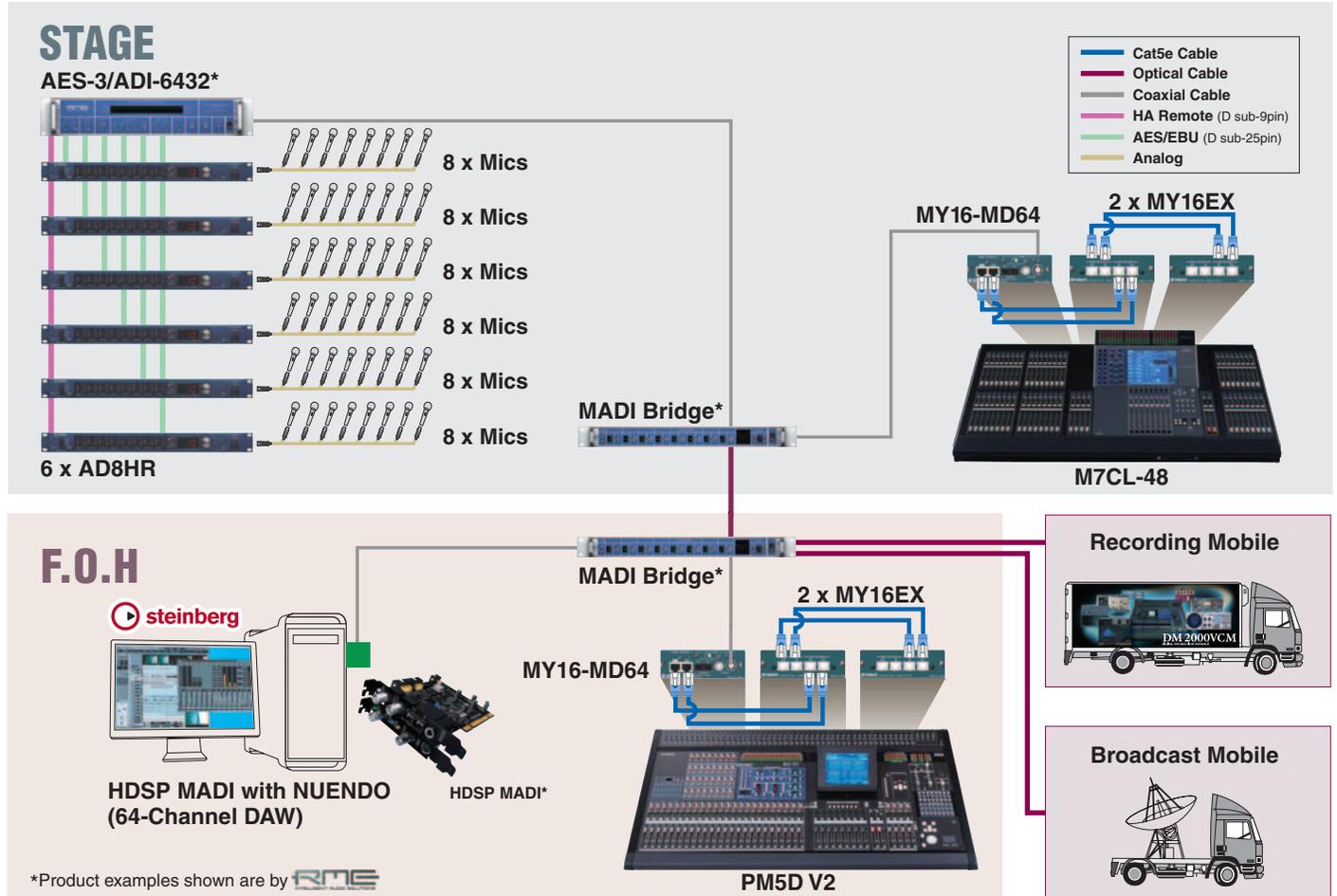
advantage in susceptible locations. In addition to direct connection to other Yamaha professional audio equipment equipped with MY16-MD64 cards and MY16-EX cards as required, these cards communicate seamlessly with MADI devices from other manufacturers, allowing networks of just about any size to be created to suit the widest possible range of applications requirements. MADI is also an ideal choice for connecting to computers running Steinberg DAW software for recording and production.

### MADI: the First Choice for Production, Broadcast, and Live Recording

MADI – the Multichannel Audio Digital Interface – was defined by the Audio Engineering Society to serve as the professional audio industry standard for multi-channel digital audio. MADI allows transmission of up to 64 channels of 24-bit 48 kHz audio via a single coaxial or optical cable. Coaxial transmission lines can be up to 100 meters in length, while optical lines can provide error-free transmission up to 2000 meters! Standard 75-ohm coaxial cable with BNC connectors, or standard 62.5/125 $\mu$  network optical cables can be used. MADI provides the simplest means of transmitting sample-accurate audio data over long distances, with significantly reduced installation and maintenance costs.

## Application Example

In this example a MADI-equipped main mixer serves as the core of a large live sound system that also provides live recording and broadcast capability. A MADI Bridge unit distributes the audio to a local DAW for recording and possibly playback via the sound system, a recording mobile, a broadcast mobile, and a second MADI Bridge unit that interfaces to a monitor mixer and an analog I/O interface that connects to the analog front end gear located on stage. Connections between MADI devices are made using only two thin data cables for fast, easy setup and significantly enhanced reliability.



## Specifications

### MY16-MD64

	Connector	#	Note
Format	-	-	MADI
Audio Network	BNC MADI Optical	2 2	Coaxial Optical
EXT. Connector (For MY16-EX)	RJ-45	2	Cat 5

### MY16-EX

	Connector	#	Note
Format	-	-	MY16-ES64/MY16-MD64
EXT. Connector (Master)	RJ-45	2	Cat 5
EXT. Connector (For MY16-EX)	RJ-45	2	Cat 5

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**YAMAHA**  
YAMAHA CORPORATION  
P.O. BOX 1, Hamamatsu Japan  
Printed in Japan



This document is printed on chlorine-free (ECF) paper with soy ink.

PPA07-2



P10020090