



# MA2CHBOX.XL

D.O.TEC® MA2CHBOX Series

MADI Headphone Amplifier  
with AES I/O and Line Out

**MA2CHBOX.XL** is a reference class headphone amplifier for MADI (AES10) and AES3 signals. The device features three MADI ports, an AES3 port, a headphones output and a stereo line level output.

Any stereo pair or single mono channel out of three MADI streams or the AES input can be routed independently to either headphones, AES output or line out. The AES input signal may also be embedded into the MADI stream.

#### All-Round

MA2CHBOX.XL offers highest flexibility for **MADI monitoring** and **line checking** as it provides three interface standards for MADI:

- optical SC (single-mode or multi-mode)
- coaxial (BNC)
- SFP

The Small Form Factor Pluggable cage can be fitted with any SFP module suitable for the customer's application. A port routing offers independent output feeds for each MADI output.

#### Remote Control

The integral USB port allows for **firmware updates**, **serial data embedding** and **remote control** for extended features, e.g. an internal routing matrix. A channel based routing can be defined through a remote control software and stored inside the device.



#### Technical Details

MADI Port (I/O)*:	1 x coaxial BNC, 75 Ω 1 x SC-Socket multi mode 1 x SFP (empty cage without module)
AES3 Port (I/O):	1 x DSUB-9 (XLR adaptor included)
Line Output:	1 x DSUB-9 (XLR adaptor included), +24 dBu@0 dBFS
SNR:	115dB RMS unweighted
THD@0dBFS:	-105dB
Headphone Output:	6.3 mm TRS jack, stereo
Output Level:	max. +12dBu
SNR:	114dB RMS unweighted / 117dBA
THD@0dBFS:	-95dB/600 Ohm
Supported sample rates:	44.1, 48, 88.2, 96, 176.4, 192 kHz
MADI Formats (I/O):	48k Frame, 96k Frame, 56/64 channel, S/MUX
Serial Communication:	RS-232 via USB (virtual COM-Port)
USB:	USB 2.0 for firmware updates and remote control
Power Supply:	84 V to 264 V AC / 47 to 63 Hz / Safety class 1 (C13 connector)
Dimensions:	Width 140mm Height 42mm Depth 140mm
Weight:	about 0.8 kg

\* device variants on request: SC-Socket single mode

#### External Monitors

The MADI signal from the mixing desk is fed to MADI 1. The selected channel pair is output at the stereo line out / AES3 port feeding (analog or digital) studio monitors. A laptop is connected at MADI 2 out for recording. MADI 3 could additionally be used to monitor another input signal or for output of the mixer signal.



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