

MONTONE.42

MADI / RAVENNA CONVERTER

AES67
compatible



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DirectOut
TECHNOLOGIES

BUILDING BRIDGES!

MONTONE.42

is a fully AES67-compliant MAD I (AES10) to Audio-over-IP bridge based on RAVENNA audio networking technology. As the demand for Ethernet-based transmissions in professional audio environments increases, MONTONE.42 provides seamless integration of network audio with existing infrastructures.

Equipped with four MAD I and two gigabit network ports, it serves as a versatile link for broadcast, live-sound and studio applications.

Powerful networking, seamless interoperability

MONTONE.42 integrates RAVENNA networking technology. RAVENNA is a solution for real-time distribution of audio and other media content in IP-based network environments that offers outstanding features in terms of timing accuracy and scalability.

It is also fully AES67-compliant (the interoperability standard from AES) for seamless compatibility with other AoIP devices. MONTONE.42 offers both an AES67 profile for straightforward network integration and RAVENNA profiles for more demanding applications requiring high performance transmission at minimum latency.

Multiple synchronization options

MONTONE.42 can be synchronized to MAD I input, word clock, video input (black burst), network (PTP) or internal clock. The device may also serve as a network grandmaster. The achieved clock accuracy complies with AES11 throughout the whole network.

All-Round Functionality

MONTONE.42 offers highest flexibility as it provides three interface standards for MAD I:

- 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.

The configuration of MAD I I/Os can be defined individually (configure to order).

TECHNICAL DETAILS

MAD I Ports (I/O):	4 x ports- individually configurable: - SC-Socket multi/single-mode - coaxial BNC, 75 Ω - SFP (empty cage without module)*
Network:	2 x RJ45 Socket (Gigabit-Ethernet)
Video Reference (I):	coaxial BNC (75 Ω termination switchable) black burst (PAL, NTSC)
Word Clock (I/O):	2 x coaxial BNC (75 Ω termination switchable)
Sample Rates:	44.1, 48, 88.2, 96, 176.4, 192 kHz
MAD I Formats (I/O):	48k Frame, 96k Frame, 56/64 channel, S/MUX
USB:	USB 2.0 for firmware updates
Power Supply:	2 x 84 V to 264 V AC / 47 Hz to 63 Hz / safety class 1
Dimensions:	Width 19" (483 mm) Height 1 RU (44.5 mm) Depth 10" (254 mm)
Weight:	about 4 kg

* optional accessory: SFP modules (LC single-mode or multi-mode)

Streaming

Assemble up to 32 streams with an individual number of audio channels from the MAD I inputs via the integrated routing matrix. Subscribe to another 32 streams and convert the incoming audio channels to MAD I. 256 channels are supported even at higher sample rates (96 kHz).

Remote control

Java-based remote control software can be accessed through the network interface to configure network streams, audio routing and all device settings.

Basic settings are also adjustable via a local interface on the front panel.

Safe operation

The MAD I inputs can be configured as redundant inputs with automatic fail-over switching. MONTONE.42 offers maximum reliability through two phase-redundant power supplies with inlets and switches on the rear panel.



Remote Method:



Port Configurations:

