

SG.MADI

SOUNDGRID / MADI CONVERTER



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DirectOut
TECHNOLOGIES

SG.MADI

is a SoundGrid / MADI converter linking SoundGrid® and MADI (AES10) and offering extra features tailored for broadcast, live and studio applications. Housed in a robust 1U 19" casing it makes economical use of valued rack space.

SoundGrid® is a layer2-based network protocol offered by Waves for Audio-over-Ethernet networking and real-time processing solutions for live, broadcast and music production facilities, using SoundGrid® technology to deliver uncompressed, multi-channel, low-latency digital audio over ethernet networks.

Quick overview

The front panel provides status LEDs for sync, sample rate and level metering of the microphone inputs.

Interfacing

Analog I/Os allow for immediate interfacing with the network audio and the MADI signal:

- 2 x microphone inputs with switchable PAD and phantom power
- 2 x line outputs, balanced
- 1 x headphone output

All-Round Functionality

SG.MADI offers highest flexibility 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.

Control signals

Two GPIs allow for integration of control signals via the network or MADI link.

Two GPOs may be configured individually in order to monitor critical system events or to trigger a recording light.

Clocking

Selectable clock sources are word clock, MADI input, SoundGrid® or the internal clock. The current system clock is provided at the word clock output at any time.

TECHNICAL DETAILS

MADI Ports (I/O):	2 x ports- individually configurable: - SC-Socket multi/single-mode - coaxial BNC, 75 Ω - SFP (empty cage without module)*
SoundGrid®:	2 x RJ45 Socket (Gigabit-Ethernet)
Microphone Input:	2 x XLR female PAD switchable (20 dB) phantom power switchable (P48)
Line Output:	2 x XLR male, +24 dBu, balanced with analogue trim controller
Headphone Output:	1 x 6.3 mm TRS jack, unbalanced with analogue trim controller
Word Clock (I/O):	2 x coaxial BNC (75 Ω termination switchable)
Sample Rates:	44.1, 48, 88.2, 96 kHz
MADI Formats (I/O):	48k Frame, 96k Frame, 56/64 channel, S/MUX
GPI:	2 x Voltage input via DSUB-9
GPO:	2 x MOSFET switch via DSUB-9
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)

SG.MADI meets a rich set of challenging applications:

- multi-stage venues connecting MADI and SoundGrid® consoles
- monitoring SoundGrid® and MADI signals
- integrating outboard equipment and DAWs to a SoundGrid® environment
- inserting SoundGrid® DSP Server into a MADI environment
- remote control of external components via SoundGrid® / MADI

Safe operation

SG.MADI offers maximum reliability through two phase-redundant power supplies with inlets and switches on the rear panel.



Port Configurations:

