SG.MADI

SOUNDGRID / MADI CONVERTER

DirectOut
TECHNOLOGIES

SG.MADI

is a SoundGrid / MADI converter linking SoundGrid®
and MADI (AES10), offering extra features tailored for
broadcast, live and studio applications. Housed in a
robust 1 RU 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 balanced line outputs
- 1 x headphone output

SoundGrid® includes drivers for Windows® (ASIO)
and macOS® (Core Audio). Thanks to SG.MADI's
integrated switch two computers can be connected
to the device at the same time for redundant
recording setups.

All-Round Functionality
SG.MADI offers highest flexibility as it provides two
module based MADI ports. Available interface types
are:
- optical SC (single-mode or multi-mode)
- coaxial (BNC)
- SFP

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,
SoundGrid® or the internal clock. The current system

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), 128 audio channels
Microphone Input:	2 x XLR female PAD switchable (20 dB) phantom power switchable (P48)
Line Output:	2 x XLR male, +24 dBu, balanced with trim controller
Headphone Output:	1 x 6.3 mm TRS jack, unbalanced with 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)

clock is provided at the word clock output at any time.

SG.MADI meets a rich set of challenging applications:
- multi-stage venues connecting MADI and SoundGrid®
  consoles
- monitoring SoundGrid® and MADI signals
- inserting SoundGrid® DSP Server with Waves plug-ins into a
  MADI environment
- integrating outboard equipment and DAWs to a SoundGrid®
  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:

BNC   SC   SFP

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