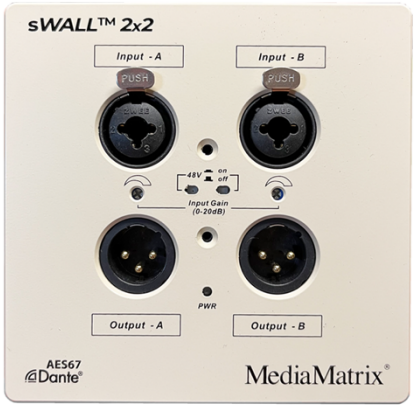
sWALL™ 2x2

Networkable In-Wall Interface Panel

SKU-03620260

MediaMatrix®

PRELIMINARY



Description

The MediaMatrix® sWall™ 2x2 is a PoE powered in-wall surface mount network audio interface panel supporting both MediaMatrix sNET™ AES67 or Dante® streaming audio over Ethernet, offering two analog microphone/line level balanced input channels and two analog line level output channels.

Analog audio sources, typically from microphones or line level audio playback devices, connected via the universal combo XLR/TRS inputs, are converted into digital audio then packaged into separate audio sub-channels transmitted as either a Dante or AES67 network audio data stream. Additionally the sWALL 2x2 interface panel can received any supported audio streams on the connected network, converting such stream and sub-channels to high quality balanced analog audio signals at the XLR output connectors.

The input universal combo XLR/TRS connectors each have independent channel selectable phantom power via a front panel micro-switch. Gain control for each input can be adjusted using rotary micro-pots. Electret condenser and dynamic microphones are supported when using the XLR inputs, line level audio inputs supported via 1/4" TRS; Attenuation is auto-switched via the push to lock button independent for each input channel.

The sWall 2x2 eliminates the need for long runs of analog cables terminated in racks of patch bays. As the connection to the sWall 2x2 uses UTP cable with network standard RJ45 crimp connectors, the installation time, number of terminations required and associated cost are all minimized.

A MediaMatrix sWall 2x2 fits within a standard 2 gang North American NEMA back box and is powered over the attached network cable from a network PoE capable switch supporting IEEE 802.3af/at standards for power over Ethernet.

Features

- Supports both MediaMatrix sNET™ AES67 or Dante® audio-over-IP interoperability.
- 48 kHz sample rates @ 32bit A/D and D/A conversion.
- Automatic Mic/Line input level attenuation when using XLR connector for microphone levels switched automatically via connector push to lock button.
- Line level inputs supported when using 1/4" TRS connection.
- Rotary micro-pot for each input channel allows +20 dB gain of the signal.
- Selectable 48V phantom power on each microphone XLR input.
- Two independent balanced line level outputs.
- A/D and D/A conversion at the wall panel reduces problems with buzz, hum, ground loops and other cable issues. It also eliminates the need for isolation and impedance matching interfaces.
- MediaMatrix sNET™ AES67 and Dante® audio-over-IP via switched network and RJ45 crimp connectors greatly reduces critical path delivery time and costs, replacing the need to solder/terminate analog interface panels.
- Configurable with Dante Controller.
- PoE mode power supply, or injector compatible with 802.3af/at standard PoE switches.
- Available in RAL 110-1 arctic white. Custom color on request subject to minimum quantity.

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sWALL™ 2x2 - In Wall Interface Panel

Specifications

ANALOG AUDIO

Type:	Input: 2 x XLR / TRS 1/4" Mic/Line balanced audio
	Output: 2 x XLR (M) Line level balanced audio
Connector:	Input: Universal Combo 3 Pin XLR/1/4" TRS
Input level:	-60 to +24dBu mic/line
Common-mode rejection:	80dB
Input impedance:	20kΩ (Balanced)
Dynamic range I/O:	>116dB
THD+N I/O:	<0.002% @ 1k, 4dBu
EIN:	-131 dBu
Phantom power:	+48V @ 10mA per ch
Input gain adjustment:	+20dB rotary micro-pot for each channel
Output impedance:	100 Ω (balanced)
Max. Input/Output Level:	18dBu
Noise floor:	-90dBu

DIGITAL / NETWORK AUDIO

Type:	IEEE 802.3 Fast Ethernet 10/100 Mbps
Protocol/Standard	MM sNET™ AES67 or Dante® audio-over-IP
Connector:	RJ-45 PoE 802.3at/af
AD/DA converter:	32 bit over sampling
Frequency:	@ 48kHz sample rate - 20Hz to 20kHz ±1dB

MECHANICAL

Device:	W 3.15" (80mm) - H 3.74" (95mm) - D 2.0" (52mm)	Weight:	0.55 lb (0.25kg) max
Faceplate:	W 4.57" (116mm) - H 4.53" (115mm) - D 0.12" (3mm)	Operating Temp:	-15 - 158°F (-10 to 70°C) - non condensing
Back Box:	W 3.43" (87mm) - H 3.82" (97mm) - D 1.8" (46mm)	Power over Ethernet:	IEEE 802.3af/at supported - 48V

Architect's & Engineer's Specifications

The audio network interface panel shall be an in-wall surface mount panel designed for fixed installation engineered audio and communication systems. The device shall provide for up to 2 input analog audio channels supporting both microphone and line level balanced audio sources with input attenuation being automatically selected upon connecting either an XLR for microphone level or a 1/4" TRS jack for line level sources. Rotary micro-pots located on the front panel for each input shall allow input gain adjustment of up to +20dB. The device shall allow for balanced analog audio inputs providing for optional 48V DC phantom power on microphone level inputs selectable from a micro switch. The device shall also provide up to 2 independent balanced audio line level output channels via XLR(M) 3 pin connectors. The audio network interface shall support 10/100 Mbps - Powered-over-Ethernet (PoE) according to the IEEE 802.3af/at standards. The device shall support connectivity of 3 pin XLR and TRS 1/4" jacks for both inputs utilizing universal combo connectors. Dante® or AES67 audio-over-IP network protocols and standards shall support up to two separate network streaming audio sub-channel transmissions plus two independent sub-channels being received, decoded and made available via the XLR output connectors. The network interface rear panel Ethernet port shall be side mounted to ensure the connected network cable has sufficient bend radius for installation within a North American NEMA 2-gang back box. Remote set up of the streams shall be possible using Dante Controller. The audio network interface panel shall be the MediaMatrix® sWALL™ 2x2.

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