DAIO-168 : D-Mitri Analog I/O

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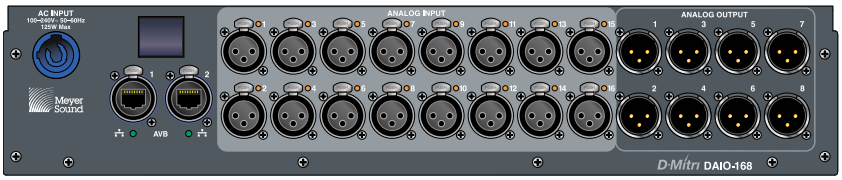

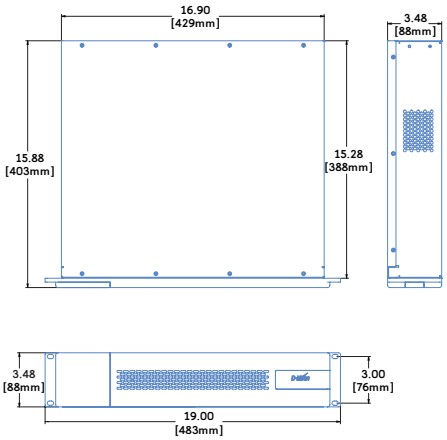

The DAIO-168 is a 2U rackmountable input/output module for the D-Mitri digital audio platform providing 16 channels of balanced mic-level or line-level analog input and eight channels of line-level analog output on XLR connectors. The DAIO-168 includes a high-quality preamplifier and precision A/D conversion for each input channel and a software-selectable maximum output level, as well as transport of input and output channels to and from D-Mitri's AVB-enabled Ethernet network.

D-Mitri is a sophisticated digital audio platform which is the basis for a family of powerful modules aimed at providing comprehensive audio processing, matrix mixing and routing for a variety of professional audio applications, including theatrical and spectacle productions, theme parks, and active acoustics. D-Mitri systems feature an extremely flexible and highly programmable control scheme that can be customized by the user via the Python scripting language and Open Sound Control real-time protocol (both open-source tools) to accomplish even the most complex tasks. D-Mitri modules communicate using the Ethernet/AVB standard, which provides guaranteed QoS (quality of service) and very low-latency.

Selections of D-Mitri modules can be assembled to provide nearly any configuration of digital or analog inputs and outputs and channels of processing. The DAIO-168 facilitates applications requiring analog input and output connections.

The DAIO-168's analog input circuitry accepts a wide range of input signal levels, from −57 dBu to +26 dBu and exhibits 115 dB of dynamic range. Each input channel is equipped with gain and phantom-power controllable from D-Mitri's CueStation software, plus an 18 dB pad. Full-scale analog output conversion levels can be selected in software to be +16dBu or +26dBu.

Features & Benefits

- Provides 16 mic-level or line-level analog inputs and eight line-level analog outputs
- High-resolution A/D/A conversion: up to 96 kHz sample rate at 24 bits
- Accepts very wide range of input signal levels
- Software-controlled gain and phantom power for each input
- Software-selectable maximum output levels
- Integrates analog audio inputs and outputs into D-Mitri's Ethernet/AVB network
- Additional redundant AVB port

Preliminary Specifications

ANALOG AUDIO

Input Section	16 analog inputs
Connectors	Gold-plated female XLR
Maximum Input Level	+26 dBu (maximum range selected, 0 dB input gain)
Output Section	Eight analog outputs
Connectors	Gold-plated male XLR
Maximum Output Level	+26 dBu into 600 ohms or greater (maximum range selected)

A/D/A CONVERSION

Digital Conversion	24-bit resolution, 96 kHz sampling rate
Analog Conversion	24-bit resolution, 96 kHz sampling rate

DIGITAL AUDIO AND CONTROL

Network	Two AVB-enabled Ethernet ports for connection to D-Mitri system
Software Control	Full bidirectional communication with D-Mitri processors for control by CueStation software within a client-server architecture, as well as external control via Open Sound Control protocol

AC POWER

Connector	PowerCon®
Operating Voltage Range	100–240 V AC, 50–60 Hz
Power Consumption	125 W maximum

PHYSICAL

Dimensions	Two rack spaces 19" w x 3.5" h x 15.9" d (483 mm x 89 mm x 404 mm)
Weight	20 lbs

NOTES

System Requirements	D-Mitri requires a Gigabit Ethernet infrastructure
Cabling	Cat-5e or Cat-6

CE N775 www.meyersound.com Made in USA with domestic and foreign parts (Pending) (Pending)

D-Mitri DAIO-168
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