DAIO-816 : D-Mitri Analog I/O

thinking sound   **Meyer Sound®**
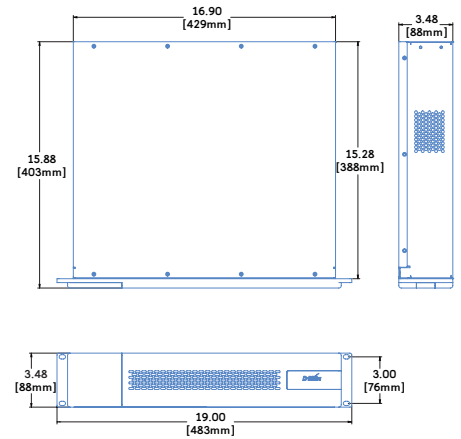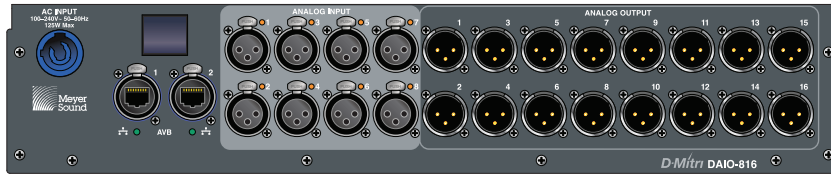

The DAIO–816 is a 2U rackmountable input/output module for the D–Mitri digital audio platform providing eight channels of balanced mic–level or line–level analog input and 16 channels of line–level analog output on XLR connectors. The DAIO–816 includes a high–quality preamplifier and precision A/D conversion 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–816 facilitates applications requiring analog input and output connections.

The DAIO–816'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 eight mic–level or line–level analog inputs and 16 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	Eight analog inputs
Connectors	Gold–plated female XLR
Maximum Input Level	+26 dBu (maximum range selected, 0 dB input gain)
Output Section	16 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-816
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