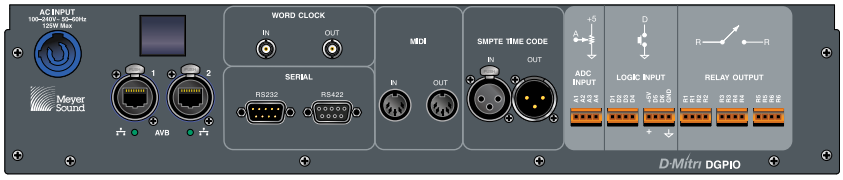
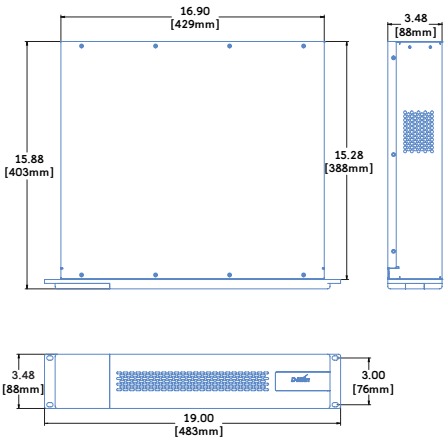
DGPIO : D-Mitri General Purpose I/O

thinking sound Meyer Sound





The DGPIO is a 2U rackmountable input/output module for the D-Mitri digital audio platform providing control input and output connections between D-Mitri's AVB-enabled Ethernet network and external devices that have a variety of industry standard interface types.

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 DGPIO facilitates applications requiring connections to external devices featuring common control interfaces.

The DGPIO offers MIDI input and output connectors capable of carrying both standard MIDI and MIDI Show Control messages, serial interfaces that send and receive RS232 or RS422 serial data, an input and an output for SMPTE time code (LTC), word clock input and output connections, and a terminal strip for wiring relays and switch closures.

Features & Benefits

- General Purpose I/O with contact closure inputs and relays
- Serial Computer Interfaces for both RS-232 and RS-422
- MIDI in and out
- SMPTE Linear Time Code In and Out
- System Word Clock In and Out
- Provides conversion between these interfaces and D-Mitri's Ethernet/AVB network
- Enables extensive control of external devices by D-Mitri's CueStation software
- ADC inputs
- Additional redundant AVB port

Preliminary Specifications

CONNECTIONS

MIDI	One MIDI input on 5-pin DIN connector One MIDI output on 5-pin DIN connector
SMPTE (LTC)	One SMPTE input on gold-plated female XLR connector One SMPTE output on gold-plated male XLR connector
Serial	One RS-232 on male DB-9 connector One RS-422 on female DB-9 connector
Word Clock	One word clock input on BNC connector One word clock output on BNC connector
Terminal Strip	Six relay connections Six Digital Logic Inputs with switch contact closure (including ground and +5v) Four ADC inputs

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 DGPIO
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