MDM-D16M
MusiCall Music & Message

DATEQ *audio technologies*

Dante®

▶ ANALOG DEVICES

Network DSP audio matrix 16x16

MDM-D16M | 16x16 Dante channels

*ADI SHARC platform with semi-open architecture and tcp/ip ethernet support
*Integrated management of multiple devices
*Each channel has its own adaptive feedback suppression which can calibrate itself instantly
*Full-duplex Adaptive Echo Cancellation (AEC) and Active Noise Cancellation (ANS)
*Gain sharing Auto Mixer Control (AMC)
*Automatic Gain Control (AGC)
*Audio Ducker (Multiple)
*Ambient Noise Compensator (ANC)
*Full-featured audio mixing matrix (supports adjustable input level)
*Assignable UDP port number for central control, code guide available
*Works with (multiple) MDM-CON1 PoE wallpanels, programmable in software
*Built-in dual channel USB sound card can be used for recording, broadcasting and video conference
*Supports both PoE and DC (12V) power supply
*Supports Windows operating system
*16x16 analog IO + 16x16 Dante® IO + 1x1 USB IO for a total of 33 inputs and 33 outputs.
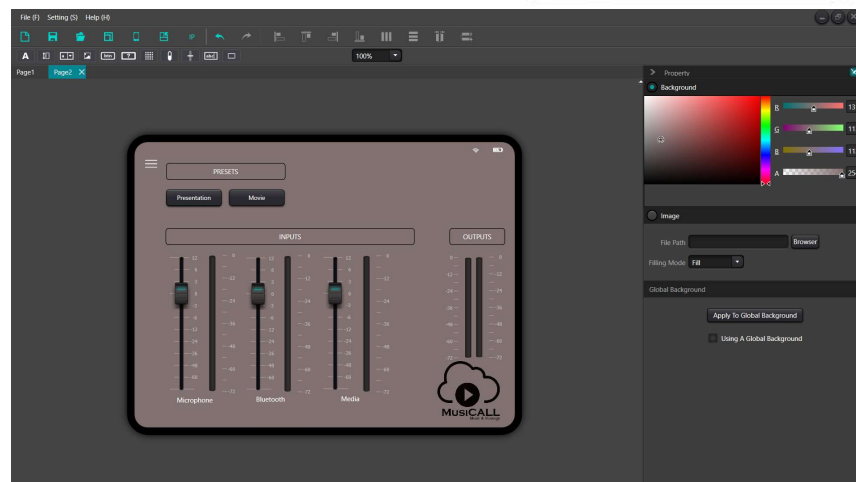

Software

The Windows software makes it easy to setup the DSP functions and the used controllers.

Use the custom GUI designer to build your own layouts for Android tablets and iOS phones.
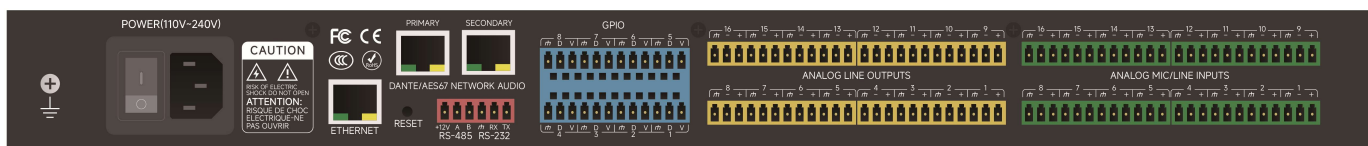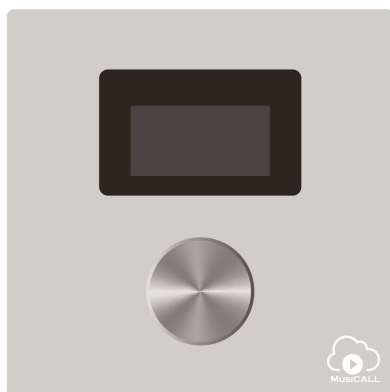
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Technical specifications

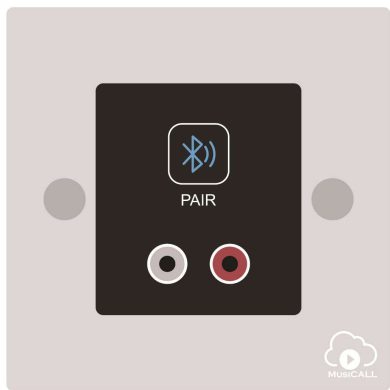|			
Processor	ADI SHARC 21489	Input dynamic range	113dB
Sampling rate/quantization bits	48K/24bit	Output dynamic range	113dB
Number of analog input and output channels	16x16	Channel isolation @1kHz	108dB
		Input impedance (balanced connection)	5.4KΩ
Input gain	0/3/6/9/12/15/18/21/24/27/ 30/33/36/39/42/45/48 dBu	Output impedance (balanced connection)	600Ω
		System delay	<3ms
Phantom power	+48V/10mA max	Working power supply	AC110~240V, 50Hz/60Hz
Frequency response	±0.3dB(20~20kHz)	Dimensions (width x depth x height)	482 x 260 x 45mm
Maximum level	+18dBu	Shipping weight	4KG
THD+N	<−95dB @17dBu		

Accessories

MDM-CON1 is aPoE powered controller which communicates using UDP protocol. Fully configurable in the software, equipped with 1.31" OLED display. It offers various audio control capabilities such as volume adjustment, mixing, room combining and scene switching.

Control protocol	UDP	Power consumption	<100mW
Address setting method	TCP/IP	color	White
Signal line length	100 meters	Material	Aluminum alloy sandblasted
Power supply method	PoE	Connection port	RJ–45

MDM-BT is a wall panel that supports mutual conversion between Bluetooth signals or stereo signals and Dante/AES67 network digital signals, and the Bluetooth signal has priority. Connect with mobile phones, iPads and other devices through Bluetooth, the received audio is converted into the Dante® network.
The panel is powered by PoE, and a network cable is used for power supply and audio transmission.
You can control Bluetooth pairing and connecting devices with a touch button and display the connection status. Bluetooth name can be modified.

Bluetooth channel	2	Data bits	24bit
Dante channel	2	Power supply	Class1 802.3af PoE
Stereo channels	2	Device delay	<2ms
Sampling rate	48kHz		