

DM1616 - DM1616D

16 Input 16 Output Digital Matrix Processor

Features

DM1616 models media matrix audio processors provide users with multiple channels for choosing: 16x16. Support analog input and analog output, input channels support mic level and line level. They can realize a variety of DSP functions, including matrix mixing, auto mixing, 64 x 64 channels can be expanded with additions. AFC(acoustic feedback control), AEC(acoustic echo control), ANC(acoustic noise control), echo and reverb effect, noise gate, delay, compressors, limiters,

PEQ. The matrix can be quickly debugged and monitored through the nice GUI software Mconsole, which provides a broad operating space for the construction and operation of audio amplification systems. Suffix DM1616 D represents to configuring 8 channels of Dante network audio input and output. Each input supports ANC, Echo effects, Reverb effects in local audio sound system. Each input supports AEC function in remote audio transmit system. Built-in USB sound card, good used in remote meeting, record and broadcast. Support auto mixing and matrix mixing of all channels. Nice GUI control software Mconsole (PC windows). USB free driver connecting. Support TCP/IP, USB wired control, Android App Tcon wireless control. Provide with RS232, RS485 central control and GPIO external control. Support camera tracking via most of camera control protocol.



Technical Specifications

Signal processing	8-bit fixed/floating-point DSP 300MHz
Audio system latency	< 1ms
D/A conversion	24-bit
Sampling Rate	48kHz
Audio interface	3.81mm Phoenix interface, 12-pin
Input channel	8 balanced inputs. Mic/Line level
Input resistance	8.5kΩ
Maximum input level	12 dBu/Line, -7dBu/Mic, 20dB gain
Phantom supply	+48V DC, 6.5mA per channel
Output channel	8 balanced outputs, Line level
Output impedance	50Ω
Freq. resp. curve	20Hz~20kHz(±1.5dB)/Mic, 20dB gain 20Hz~20kHz(±0.5dB)/Line
THD+N	-86dB(@-7dBu, 1kHz)/Mic, 20dB gain -90dB(@12dBu, 1kHz,)/Line
SNR	108dB(@16dBu, 1kHz,A-wt)/Line
USB	Micro-B type, free drive
RS232	Serial port communication
TCP/IP network port	RJ-45
Indicator light	Input, +48V, Link, Output
Power supply range	AC 100V~240V 50/60 Hz
Operating temperature	-20°C~80°C
Product dimension	483mm×210mm×44.5mm, Package: 537mm×345mm×77mm
Weight	Device:3.3/3.3/3.5kg, Gross:4.2/4.2/4.25kg