DM1616 – DM1616D

16 INPUT 16 OUTPUT DIGITAL MATRIX PROCESSOR

Features

DM1616 models media matrix audio processors provide users with multiple channels for choosing: 16×16. 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, and 64×64 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 GUI software Mconsole, providing a broad operating space for audio amplification systems. Suffix DM1616D represents configurations with 8 channels of Dante network audio input and output. Each input supports ANC, Echo effects, Reverb effects in local systems, and AEC function in remote audio systems. Built-in USB sound card enables use for remote meetings, recording, and broadcasting. Supports auto mixing and matrix mixing of all channels. Includes GUI software Mconsole (Windows). USB free-driver connection. Supports TCP/IP, USB wired control, Android App (Tcon) wireless control. Provides RS232, RS485 central control and GPIO external control. Supports camera tracking with most control protocols.



Technical Specifications

Feature	Specification
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	16 balanced inputs, Mic/Line level
Input resistance	8.5kΩ
Maximum input level	12 dBu / Line, –7 dBu / Mic (20dB gain)
Phantom supply	+48V DC, 6.5mA per channel
Output channel	16 balanced outputs, Line level
Output impedance	50Ω
Frequency response	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 driver
RS232	Serial port communication
TCP/IP network port	RJ-45
Indicator light	Input, +48V, Link, Output
Power supply range	AC 100V–240V 50/60Hz
Operating temperature	–20? to +80?
Product dimension	483 × 210 × 44.5 mm Package: 537 × 345 × 77 mm
Weight	Device: 3.3 / 3.3 / 3.5 kg Gross: 4.2 / 4.2 / 4.25 kg

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