

DSP / Matrix Processor

Model List

- DMX 3232D | DSP Matrix 32 Input 32 Output DANTE

Product Introduction

The DMX 3232D is a powerful DSP Matrix designed for professional audio environments, featuring a Dante interface with 32 Dante input and 32 Dante output channels. Equipped with dual ADI SHARC 21489 processors running at 450 MHz, the DMX 3232D delivers exceptional DSP performance with 400 MIPS and 1.6 GFLOPS of processing power, ensuring high-quality sound and seamless audio management.

Operating at a 48 kHz sampling rate, this model offers configurable processing modules that can be tailored to specific requirements. It supports up to 8 devices for simultaneous online operation and integrates a built-in USB sound card for video conferencing platforms like ZOOM, Tencent Meeting, and DingTalk. Key features include Acoustic Echo Cancellation (AEC) with a 512 ms tail length, Automatic Feedback Control (AFC), Noise Suppression (ANS), Ducker, Automatic Gain Control (AGC), and Automatic Noise Control (ANC). Its 12-band British parametric equalizer allows for precise audio tuning with five filter types.

The DMX 3232D also supports camera tracking and can manage up to 30 devices on a single customizable interface. It offers advanced central control capabilities with RS232, RS485, and UDP, making it the ideal solution for large-scale audio installations in conference rooms, auditoriums, and more.

Key Features

- Dante interface with 32 Dante input and 32 Dante output channels.
- Dual ADI SHARC 21489 processors at 450 MHz with 400 MIPS and 1.6 GFLOPS.
- 48 kHz sampling rate with 110 dB input and 112 dB output dynamic range.
- Built-in USB sound card for video conferencing platforms like ZOOM and Tencent Meeting.
- Acoustic Echo Cancellation (AEC) with 512 ms tail length and 60 dB/s convergence rate.
- Independent channel Automatic Feedback Control (AFC) and 18 dB Noise Suppression (ANS).
- 12-band British parametric equalizer with five filter types for precise audio tuning.
- Supports camera tracking and simultaneous online operation of up to 8 devices.
- Central control capabilities via RS232, RS485, and UDP protocols for system management.
- Standard 1U rack-mountable design with dimensions of 482 x 260 x 45 mm.



DMX 3232D



Software Included

Technical Specification

DMX 3232D

Dante Input Channels	32
Dante Output Channels	32
GPIO Channels	8
Processor	ADI SHARC 21489 @ 450 MHz SIMD X2
DSP Processing Capability	400 MIPS, 1.6 GFLOPS
Sampling Rate	48 kHz, $\pm$ 100 ppm
THD+N	< -94dB @17dBu
Input Dynamic Range	110dB
Output Dynamic Range	112dB
Simultaneous Online Operation	Up to 8 devices simultaneously
Bus AEC	Tail time: 512ms, Convergence rate: 60dB/s, Echo cancellation depth: 60dB
Independent Channel AFC	Trap wave algorithm, Gain enhancement: 10dB
Noise Suppression (ANS)	Signal-to-noise ratio improvement: 18dB
Ducker	Yes
Noise Gain Compensation (ANC)	Yes
Gain-Shared Automatic Mixing (AMC)	Yes
Gate Mixer	Yes
12-Band British Parametric EQ	Yes, with 5 filter type selections: Parametric, Lowshelf, Highshelf, Lowpass, Highpass
System Delay	< 6ms
Camera Tracking	Yes
Dimensions (W x D x H)	482 x 260 x 45 mm
Weight	4KG