

32x32 Dante All Digital Audio DSP



Aurora's DTX-3232D is a Dante enabled, all digital, audio DSP. This fully networked family of professional audio products is ideal complement to Aurora's IPX and VPX Video over IP solutions for House of Worship, Bars and Restaurants, Conferencing, and Education markets. The DTX ecosystem of products are purpose built to deliver pristine audio throughout the network while significantly reducing traditional device count and cabling costs.

DTX products use the industry-leading ADI 450Mhz SHARC 21489 chip and provides outstanding 24bit/48kHz audio quality. The series has the best 5A DSP algorithms in the industry including

Features:

- **ADI SHARC 21489 processor (450MHz)**
- **2 Dante audio interfaces on RJ-45 connectors**
- **Dante audio channels up to 32x32**
- **8x8 Fully configurable GPIO**
- **Definable GUI for managing and configuring multiple units**
- **Supports Adaptive Feedback Control (AFC), Acoustic Echo Cancellation (AEC), Automatic Noise Suppression (ANS), Automatic Gain Control (AGC), AutoMix**
- **Each input supports parametric equalizer (PEQ), signal generator, compressor, expander**
- **Each output supports parametric equalizer, audio crossover, delay, limiter**
- **Up to 16 settings can be preset**
- **Built-in USB sound card for recording and playing digital audio**
- **DSP Configurator software tool for managing all audio operations**

- AFC (Adaptive Feedback Control)
- AEC (Acoustic Echo Cancellation)
- ANS (Automatic Noise Suppression)
- ANC (Ambient Noise Compensation)
- AGC (Automatic Gain Control)
- Gain Sharing AutoMix

The DTX-3232D is a power packed DSP which features 32x32 Dante I/O. It is perfect for medium to large applications where no analog I/O is needed.

Applications include:

- Higher Education
- Bar or restaurant
- Large or complex conference rooms



Audio DSP Console



The **Dash** DSP Controller is a Windows-based, full-featured application that configures and controls the DSP hardware. Systems can be designed to perfectly match specifications and conform as requirements change or evolve. All classes of audio processing modules for signal routing and shaping are provided.

Dash provides a revolutionary way of thinking about DSP software. This is a software designed by audio professionals for audio professionals. It uses an interface layout that will be very intuitive to even the most novice integrator yet extremely powerful in its capabilities

The DTX-3232D supports the following DSP features:

- Gain Sharing Auto-Mixer
- Acoustic Echo Cancellation
- Automatic Noise Suppression
- Adaptive Feedback Control
- Automatic Gain Control
- Ambient Noise Compensation
- Expander, Compressor, Limiter
- Ducker, Gate
- 5, 8 and 12-Band Parametric EQ
- 10, 15 and 31-Band Graphic EQ
- Output Crossover
- Output Compensation Delay

Technical Specifications:

Model Name	DTX-3232D
Audio	
ADSP	ADI SHARC 21489@ 450MHz
Audio Format	24 bits, 48 kHz sampling rates (uncompressed)
System Latency	< 3 ms
Dante I/O Channels	32x32
Dante	
Dante Dynamic Range	115 dB
Dante Noise Floor	-91 dBu (A-weighted)
Interface	
Ethernet Port (RJ-45)	2 Dante Audio 1 LAN
USB Port (Type-A)	1 USB Audio
Serial Port (Terminal Block)	1 RS-232, 1 RS-485
GPI/O Port (Terminal Block)	8x8 GPI/O
Power	
AC Power	110 to 240 VAC at 50 or 60 Hz
Power Consumption	15 W
Enclosure	
Chassis Material	Aluminum
Chassis Color	Black
Chassis Dimensions (HxWxD)	482 x 260 x 44 mm (19 x 10.25 x 1.75 in)
Chassis Weight	3 kg (6.6 lb)
Environment	
Operating Temperature	0 to +40 °C (+32 to +104 °F)
Humidity	10% to 90% RH (non-condensing)
Compliance	
Regulatory Compliance	FCC, CCC, CE, RoHS
Package Contents	
(1) DTX-3232D, (1) USB Type-A Cable, Mounting Ears	

Note: Specifications subject to change without notice.

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