Aurora
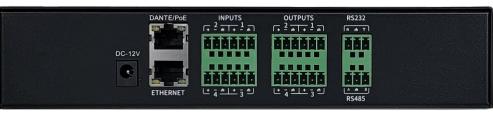
4x4 Dante Audio DSP with 4x4 Analog I/O

Aurora's DTX-44D is a Dante enabled, digital audio DSP. This fully networked and PoE powered DSP, is an 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. A single network cable handles power, transmission, management, and control, making it easy to transmit and control audio safely, quietly, and conveniently for reliable performance and perfect integration throughout the network.

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

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

Features:

- **ADI SHARC 21489 processor (450MHz)**
- **Balanced microphone or line level inputs on Terminal Block connectors**
- **Balanced line level outputs on Terminal Block connectors**
- **2 Dante audio interfaces on RJ-45 connectors**
- **Dante audio channels up to 4×4**
- **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 8-band parametric equalizer (PEQ), signal generator, compressor, expander, and 48 V phantom power**
- **Each output supports 8-band 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**

The DTX-44D is a small yet power packed DSP which features 4x4 Dante along with 4x4 Analog I/O. It is perfect for small applications where only few peripheral devices will be utilized yet the features of a full function DSP are desired.

Applications include:

- Single classroom
- Small bar or restaurant
- Huddle Rooms

www.auroramm.com

Aurora Multimedia Corporation
205 Commercial Court, Morganville, NJ 07751
Phone: +1 (732) 591-5800
Email: sales@auroramm.com

Spec Sheet: 211214

Dash

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-44D supports the following DSP features:

- Gain Sharing Auto-Mixer
- Acoustic Echo Cancellation
- Automatic Noise Suppression
- Adaptive Feedback Suppression
- Automatic Gain Control
- Expander, Compressor, Limiter
- 8-Band Parametric EQ
- Output Crossover
- Output Compensation Delay

Technical Specifications:

Model Name	DTX-44D
Audio	
ADSP	ADI SHARC 21489 @ 450MHz (×1)
Audio Format	24 bits, 48 kHz sampling rates (uncompressed)
System Latency	< 3 ms
Analog I/O Channels	4×4
Dante I/O Channels	4×4
Input	
Analog Input Gain	0/6/12/18/24/30/36/42/48 dB
Input Impedance	5.4KΩ
Frequency Response	(20 Hz to 20 kHz) ±0.5dB
THD+N	<-94dB @17dBu
Maximum level	+ 18dbu
SNR	110 dB
Input Dynamic Range	110dB
Analog Noise Floor	-89 dBu (A-weighted)
Channel Isolation	108 dB (1 kHz)
Phantom Power	+48V/10mA max
Output	
Output Dynamic Range	112dB
Output Impedance	600Ω
Dante	
Dante Noise Floor	-91 dBu (A-weighted)
Interface	
Analog Input Ports (Terminal Block)	4 Analog Audio (Terminal Block)
Analog Output Ports (Terminal Block)	4
Ethernet Port (RJ-45)	2 Dante Audio
USB Port (Type-A)	1 USB Audio
Serial Port (Terminal Block)	1 RS-232, 1 RS-485
Power	
AC Power	DC12V/PoE48V
Power Consumption	10 W
Enclosure	
Chassis Material	Aluminum
Chassis Color	Black
Chassis Dimensions (H×W×D)	215 x 162x 44 mm (8.5 x 6.375 x 1.75 in)
Chassis Weight	2 kg (4.4 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-44D
	(1) USB Type-A Cable, Mounting Ears

Note: Specifications subject to change without notice.

Dante® is a registered trademark of Audinate Pty Ltd.

Aurora Multimedia Corporation
205 Commercial Court, Morganville, NJ 07751
Phone: +1 (732) 591-5800
Email: sales@auroramm.com

www.auroramm.com

Spec Sheet: 211214