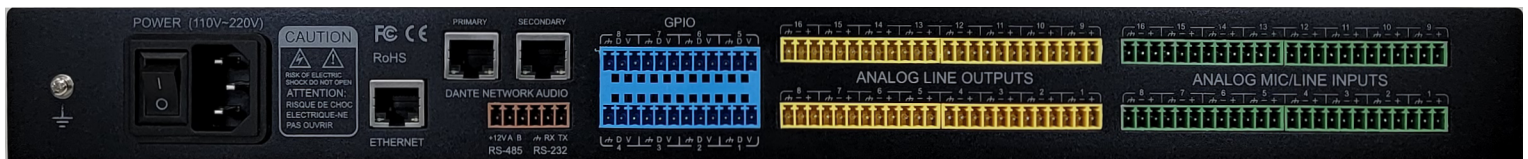


Medium Density Dante Audio DSP with Analog I/O



Aurora's DTX-88D and DTX-1616D are Dante enabled, digital audio DSPs with Analog I/O. This fully networked family of professional audio products are 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.

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 16x16**
- **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, and 48 V phantom power**
- **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**

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

The DTX-88D and DTX-1616D are power packed DSP which features up to 16x16 Dante along with 16x16 Analog I/O. It is perfect for medium to large applications where more 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-88D and DTX-1616D support 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-88D	DTX-1616D
Audio		
ADSP	ADI SHARC 21489 @ 450MHz	
Audio Format	24 bits, 48 kHz sampling rates (uncompressed)	
System Latency	< 3 ms	< 6 ms
Analog I/O Channels	8x8	16x16
Dante I/O Channels	8x8	16x16
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) ±0.3dB	
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)	8	16
Analog Output Ports (Terminal Block)	8	16
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	25 W	35 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	4 kg (8.8 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-88D	(1) DTX-1616D
	(1) USB Type-A Cable, IEC Power Cable	

Note: Specifications subject to change without notice.

Dante® is a registered trademark of Audinate Pty Ltd.

