

# COREX DT

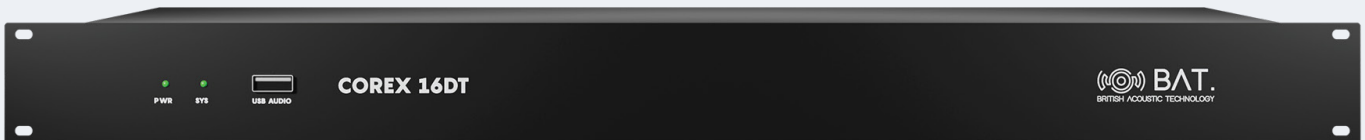
Data Sheet

## Key Features

# COREX DT Series

### The Future of Audio Processing and Control.

The **COREX DT** is a versatile Digital Audio Processor designed for comprehensive audio signal management. It features extensive input/output capabilities, including balanced microphone/line inputs and balanced audio outputs, alongside network audio integration through DANTE input and output. Equipped with custom operating software, it offers flexible configuration and control over various DSP functionalities. The processor incorporates advanced audio processing modules such as AFC (feedback suppression), AEC (echo cancellation), ANS (noise suppression), AGC (automatic gain), and gain-sharing automatic mixing. With a built-in USB sound card, it supports audio signal transmission for recording and remote conferencing. Available in two configurations, **COREX 8DT** and **COREX 16DT**, the series supports 8x8 and 16x16 analogue I/O configurations to suit projects of any size. It provides end-user interfaces for centralized control, including third-party equipment integration via UDP, RS232, and RS485.



### Advanced Audio, Automatic Perfection.

The **COREX DT** series delivers professional-grade audio with advanced DSP features including AFC (automatic feedback suppression), AEC (echo cancellation), ANS (noise suppression), AGC (automatic gain control), and gain-sharing automatic mixing. Each unit is powered by an ADI-architecture processor with a 40-bit floating-point DSP engine, providing robust flexibility in software configuration. The system ensures precise channel processing with independent adaptive feedback suppression for each input, enabling clean, uninterrupted audio performance.

### Control Everything, Anywhere.

For integration and control, the **COREX DT** series offers flexible routing with a 20x17 or 36x33 audio matrix, full-featured matrix mixing, adjustable input levels, and seamless network audio via 8 or 16 way DANTE inputs and outputs. Connectivity is enhanced with a built-in USB sound card for computer interfacing, supporting audio transmission for recording and remote conferencing. The system provides extensive control options, including web, mobile, and touch panel interfaces, as well as centralized management through UDP, RS232, and RS485. Additional features include eight configurable GPIOs, 16 independent preset groups, and fire linkage support for enhanced safety coordination.

# Technical Specifications

Unit	COREX 8DT	COREX 16DT
Analog Inputs:	8	16
Analog Outputs:	8	16
Analog Connectors:	Phoenix plug interface	
DANTE Inputs:	8-way DANTE	16-way DANTE
DANTE Outputs:	8-way DANTE	16-way DANTE
DANTE Connectors:	RJ45 network interface (2 dedicated interfaces)	
Custom Operating Software:	Yes, for flexible configuration and DSP control	
USB Sound Card:	Built-in, for audio transmission, recording, conferencing	
Control Interfaces:	UDP, RS232, RS485 (user-definable UDP port)	
Feedback Suppression (AFC):	Yes, per channel adaptive	
Echo Cancellation (AEC):	Yes	
Noise Suppression (ANS):	Yes	
Automatic Gain Control (AGC):	Yes	
Automatic Mixing:	Gain-sharing threshold	
Matrix Size:	20x17	
Presets:	16 groups, independent operation	
GPIO:	8 (configurable, inputs usable as ADC)	

# Technical Specifications

Unit	COREX 8DT	COREX 16DT
Channel Functions:	Bay, LINK, Grouping	
Processor Architecture:	ADI	
DSP Engine:	40bit floating-point computing engine	
Fire Linkage:	Yes	
Control Modes:	Web, mobile, tablet, key panel, touch panel 113dB	
Analog/Digital Dynamic Range (A-weighted):	113dB	
Digital/Analog Dynamic Range (A-weighted):	115dB	
Input Gain:	0/10/20/30/40/43dB	
Output Level:	0/6dB	
Sampling Rate:	48kHz	
Input Processing (per channel):	8-band PEQ, AFC, AEC, ANS, AGC, Autor Mixer	
Output Processing (per channel):	Crossover, 8-band PEQ, Delay, Limiter	
Frequency Response:	20-20kHz ( $\pm 0.2$ dB)	
Common Mode Rejection:	@60Hz 80dBu	
Maximum Level:	+24dBu	

# Technical Specifications

Unit	COREX DT8	COREX DT16
Total Harmonic Distortion:	≤0.003% @1KHz,+4dBu	
Noise Floor (A-Weighted - Analog):	-89dBu	
Noise Floor (A-Weighted - Dante):	N/C (Not Compatible / Not Applicable)	
Other Interfaces:	GPIO (8), RS232/RS485 (I), RJ45 (1 control), USB (I)	
Input Impedance (Balanced)	9.4KΩ	
Input Impedance: (Balanc Connection):	102Ω (This appears to be a separate specification or a typo, as 9.4kΩ is also listed)	
Phantom Power:	48V	
Power Requirements:	AC110V-240V, 50Hz/60Hz	

# Software

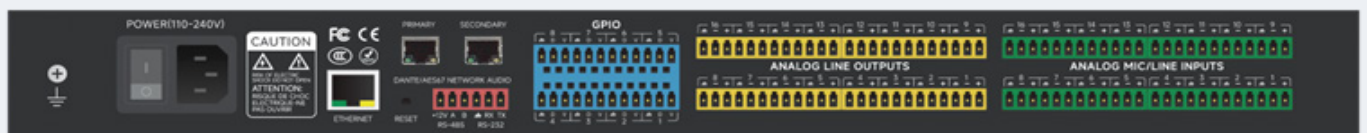


## Software Installation Requirements:

A Windows PC with:

- Intel i5 processor or higher.
- 8 GB or higher memory.
- 1 GB free storage space.
- Windows 7 or higher version.
- Minimum 1920x1080 resolution.
- 24 bit or higher color.
- Network (Ethernet) port.

## Rear Panel Overview



# Contact Us

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