

---

# COREX

---

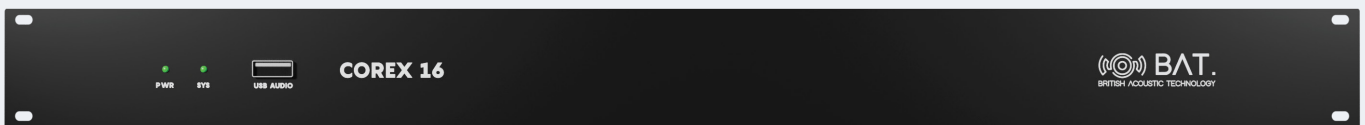
Data Sheet

## Key Features

# COREX Series

### The Future of Audio Processing and Control.

The COREX series is a high-performance line of analogue audio digital signal processors, designed for demanding AV, conferencing, and commercial integration applications. Featuring robust audio processing capabilities, flexible connectivity options, and full control via intuitive software, the COREX series enables scalable, efficient, and high-fidelity audio system design. available in two configurations, COREX 8 and COREX 16, the series supports 8x8 and 16x16 analogue I/O configurations to suit projects of any size.



### Advanced Audio, Automatic Perfection.

The COREX series delivers pro-level audio with advanced DSP features like AEC, noise suppression, auto mixing, AGC, EQ, and feedback suppression. Each unit features 24-bit converters, 48kHz sampling, 110dB dynamic range, and +24 dBu output for crystal-clear sound.

### Control Everything, Anywhere.

For integration and control, the COREX Series supports USB audio, 8 GPIOs, RS-232, RS-485, and IP control. Configuration and management are handled via the BAT DSP Controller, a Windows-based software platform with full parameter adjustment and an intuitive drag-and-drop interface.

# Technical Specifications

Unit	COREX 8	COREX 16
Analogue Inputs:	8	16
Analogue Outputs:	8	16
DSP Processor:	ADI SHARC 21489 @ 450 MHz SIMD	
Processing Power:	400 MIPS, 1.6 GFLOPS	
Sampling Rate:	48kHz ± 100ppm	
Dynamic Range (A/D/A):	>110dB, A-Weighted	
THD + Noise:	< -90dB (22.4kHz BW, Unweighted), 1kHz @ +18dBu, 0dB Gain	
USB Sound Card:	1 in / 1 out, Supports Music Playback, Recording, and Soft Video Conferencing (Zoom, Tencent, DingTalk, etc.)	
AEC (Acoustic Echo Cancellation):	512ms Tail Time, 60dB/s Convergence Rate, 60dB Cancellation Depth	
AFC (Feedback Control):	Per-Channel Suppression, Trap Algorithm, +10dB Gain Enhancement	
Noise Suppression (ANS):	Improves SNR by 18dB	
Parametric EQ:	8 Band British-Style EQ With 5 Filters: Parametric, Low-Shelf, High-Shelf, Low-Pass, High-Pass	
Custom UI Support:	Yes, Supports Up To 30 Devices With Same UI	
Central Control:	Yes, Integrated Control For Power, Signal Routing, Environmental and Audio sSystems	

# Software

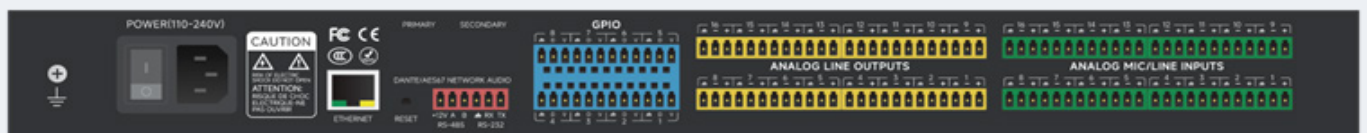


## Software Installation Requirements:

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

---

[info@bataudio.com](mailto:info@bataudio.com)  
[www.bataudio.com](http://www.bataudio.com)  
United Kingdom

 **BAT.**  
BRITISH ACOUSTIC TECHNOLOGY