

AIB-4000

DTS:X for IAB Cinema Processor

For PLF Auditoriums | Works with All Major DCI Media Servers



Native support for DTS:X for IAB immersive audio playback (compliant with SMPTE ST2098-2 standard) is provided, with full compatibility for Dante and AES67 protocols that enable 64-channel network audio interface.

This advanced network audio support streamlines cinema wiring and connection, greatly reducing the complexity of on-site installation and subsequent maintenance work for audio systems. The processor can render up to 64 channels of audio, delivering a vivid, three-dimensional soundfield and an unparalleled immersive auditory experience for cinema audiences.

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Features and Benefits

Optional GDC professional EQ module

Offers precise sound optimization for all content types, allowing tailored calibration for different film sources and cinema acoustic environments to ensure consistent, high-fidelity audio output.



Optional built-in loudspeaker crossovers

Enhance overall sound performance by optimizing audio frequency distribution to speakers, while eliminating the need for external crossover equipment—reducing both installation costs and physical space requirements for cinema audio systems.



Integrated booth

The integrated booth monitor streamlines daily operations and quality assurance workflows by providing real-time audio monitoring directly from the unit, enhancing operational efficiency for theater technicians. Optional analog outputs offer flexibility for external speakers to monitor.



Intuitive touchscreen front panel interface

Enables straightforward device control and parameter adjustment, featuring a user-friendly design that minimizes the learning curve for on-site operation and quick access to core functions.



Web-based user interface (Web UI)

Enables remote configuration, parameter tuning and real-time status monitoring of the processor, breaking through physical location limitations and supporting centralized, intelligent management of cinema audio equipment.



Built-in automatic audio fallback function

In the event of IAB immersive audio malfunction, the processor will seamlessly switch to 7.1 surround sound playback, avoiding audio interruption and ensuring uninterrupted viewing experience for cinema audiences.



Specifications

Connectivity

1 x 2.5 GB Ethernet (Intel® 2.5Gb/ RJ-45) for device control

1 x 2.5 GB Ethernet (Intel® 2.5Gb/ RJ-45) for IAB immersive audio input

2 x 1GB Dante or AES67 network audio interface (RJ-45) for main audio output

8 x 2-channel AES-3 inputs (DB25x2) for connection to cinema servers

2 x Analog input for Microphone / Non-sync input (3.5mm Audio Jack)

2 x Analog HI/VI-N output (3.5mm Audio Jack)

4 x Analog configurable audio output for monitor or test (3.5mm Audio Jack)

2 x USB 3.2 Gen 2 ports (1 x Type-A, 1 x Type-C®)

4 x USB 3.2 Gen 1 ports (4 x Type-A)

2 x USB 2.0 ports (2 x Type-A)

Audio Processing Capabilities

DTS:X for IAB immersive audio playback from cinema servers

Support for 7.1 and 5.1 surround sound playback from cinema servers

Supported Sample Rates: 48 kHz or 96 kHz at 24 bit

Support Dante or AES67 up to 64-channel network audio output

Optional GDC professional EQ processing for detailed acoustic calibration

Optional surround bass management for surround channels

Optional built-in crossover supporting up to 4-way loudspeaker systems

Optional alternative Content Surround Processing for non-immersive content

Control Features

Touchscreen front panel user interface for local operation

Web-based user interface for remote management

Web Services API for seamless integration with cinema servers and third-party TMS (Theater Management Systems)

SNMP support for real-time monitoring and alerting from NOC (Network Operations Center)

Physical Specifications

Unit Dimensions (including rack ears): 485 x 135 x 500 mm (19.1" x 5.3" x 19.7")

Unit Weight: 11.5kg (25.3 lbs)

Shipping Specifications

Shipping Dimensions: 600x 200 x 570 mm (23.6" x 7.9" x 22.4")

Shipping Weight: 13.5kg (29.8 lbs)

Power Requirements

Input: AC 100V-240V 50/60Hz

Power Consumption: Max 224W

BTU Rating: 764 BTU/hr

Operating Conditions

Standard Operating Temperature: 0°C to 40°C (32°F to 104°F)

Non-operating Temperature: -10°C to 60°C (14°F to 140°F)

Standard Operating Humidity: 20% to 80% noncondensing

Non-operating Humidity: 20% to 80% noncondensing