AIB-3000

AlB™ Digital-Analog Converter

Software License Enablement DTS® 7.1 Cinema Audio Processor





The next-generation AIB-3000 audio interface box offers a 16-channel premium quality digital-analog converter and a built-in booth monitor that connects with external audio equipment such as analog amplifiers, microphone, and media players. The AIB-3000 also allows the remote switching of input sources via Ethernet. The versatile AIB-3000 is designed for media blocks with built-in 5.1 or 7.1 cinema audio processors, or operates independently as a 7.1 cinema audio processor with an audio software license.

The audio software license turns AIB-3000 into a standalone cinema audio processor featuring DTS® 7.1 surround sound, compatible with all current and legacy media blocks. This audio software license is available for new builds or field upgrades, providing the ultimate future-proof cinema equipment in the market.

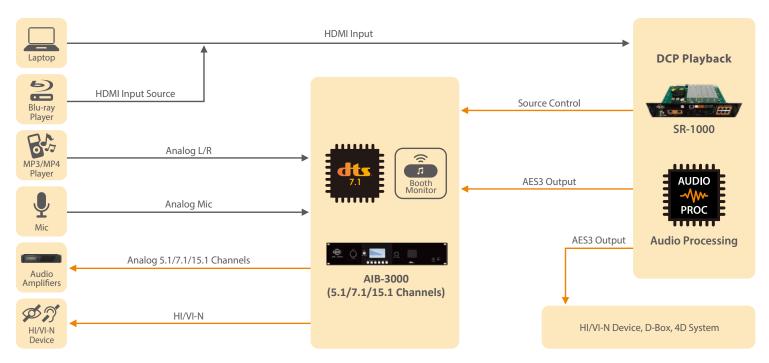
Key Benefits

- Front panel LCD display for control UI
- Built-in booth monitor with booth volume control
- Fader control
- 16-channel digital-analog converter
- Built-in 3-way loudspeaker crossovers
- Non-Sync and Mic inputs
- Hi/Vi-N output
- 12V DC backup power

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Schematic of AIB-3000 with External Audio Equipment for Both DAC Mode and Cinema Audio Processor Mode*



^{*}The actual system configuration may vary depending on specific application requirements. Please contact GDC for further details.

AIB-3000

Specifications

Remote control	Source switching via Ethernet and Web-based graphical user interface
Performance	Dynamic range: >105dB
Frequency range	20 Hz - 20,000 Hz
Microphone input	XLR female
Microphone switch	Microphone IN on/off
Microphone input phantom supply	+48 V switchable
Microphone input maximum gain	+60 dB
Non-sync input	2 x RCA
Analog H/I output	1 x RCA
Analog VI-N output	1 x RCA
Monitoring output (L+C+R summed)	1 x RCA
Analog balanced output	16 x 3-pin Phoenix
AES3 input	3 x RJ-45
LAN	1 x RJ-45
Input selector	AES3 / Non-Sync / Mic
Power requirement	90V-265V / 50-60Hz
Maximum power consumption	10W
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
Dimensions (WxHxD)	483 x 88 x 300 mm (19" x 3.5" x 11.8")
Net weight	3.9 kg (8.6 lbs)
Shipping dimensions (WxHxD)	600 x 175 x 580 mm (23.6" x 6.9" x 22.8")
Shipping weight	4.8 kg (10.6 lbs)



DTS 7.1 Cinema Audio Processor (Software License Enablement)

Key Benefits

DTS 7.1 cinema audio processor license can be procured remotely. With the cinema audio processor software license, the AlB-3000 offers the capability to provide superior sound reproduction for uncompromising quality of DTS 7.1 surround sound following DTS cinema install guidelines featuring full-range surrounds and DTS target curve with great cinematic audio experience. The embedded robust audio processing engine can achieve precise sound system calibration of the theatre by supporting



- DTS 7.1 cinema audio processing
- State-of-the-art DTS 7.1 tuning practices
- 1/3-octave graphic EQ with independent bass and treble controls (non-LFE channels)
- Parametric EQ (choice of dedicated general LFE settings or SMPTE standard LFE settings for LFE channel)
- 3-way crossovers with selectable filter type and configurable slope
- Fader (gain adjustment), global and individual channel delay
- Provides booth monitor output
- · Built-in signal generator, mute with configurable fade-in/fade-out times, wide dynamic range
- · Audio input level display, easy configuration backup and restore
- Channel routing & duplication

DTS 7.1 Cinema Audio Processor (Software License Enablement)Specifications

DSP Processing	32-bit full floating point DSP processing
Graphic EQ for 7.1 channels (non-LFE channels)	1/3 octave graphic EQ (31 bands)
	Band gain: -20 dB to 20 dB in 0.1 dB step
Bass/Treble for 7 channels (non-LFE channels)	Bass level: -12 dB to 12 dB in 0.1 dB step
	Treble level: -12dB to 12 dB in 0.1 dB step
	Treble corner frequency: 1K/2K/3K/4K Hz
LFE parametric EQ	Center frequency: 20Hz to 120 Hz in 10 Hz step
	Bandwidth (Q): 0.5 to 10 in 0.1 step
	Gain: -12 to 6dB in 0.1 dB step
3-way crossovers (for 5.1 and 7.1 Surround)	Filter type: Butterworth, LR, Bessel
	Filter slope: 12/24/36/48 dB/octave
Global delay for all channels	0 to 240ms
Audio delay for individual channel	0 to 300ms, 0.1ms step
Volume control (main fader) for all channels	-90dB to 10dB (fader 0 to 10)
Mute (fade in/out) duration configuration	0.2 to 5.0 seconds in 0.1 step
Channel gain for individual	-36dB to 8dB in 0.1dB step
PCM channel assignment	Yes
Signal generator	100Hz, 1KHz, 10KHz, Pink Noise, sweep
Audio input level meter	8 and 16 channels
Backup and restore	Audio configuration presets (equalization (EQ), crossover, channel delay, global delay, and gain)
Booth monitor speaker	LCR mix or a specific channel

AIB-3000 Dimensions

