AxC-AS16Mo
8 Mic/line + 8 outputs High Density card
For AuviTran Audio ToolBox

Overview

Like all other cards within the Audio ToolBox range, the AxC-AS16Mo can be used in either the AVBx7 or AVBx3 platforms.
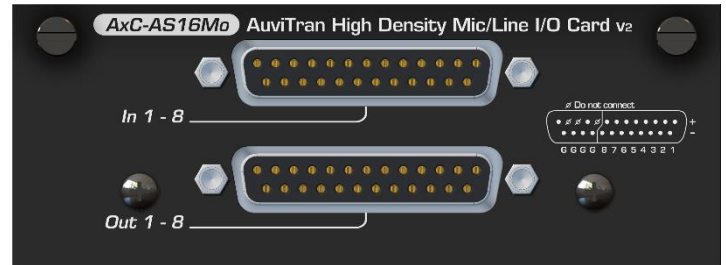
Using only one slot of the Audio ToolBox, the AxC-AS16M/AxC-AS8M provides 8 high-end Mic/Line input (both line and microphone level) plus 8-line outputs with an incredible density for the AuviTran Audio ToolBox platform.

Key Features

- 8 microphone/line high density inputs
- 8 balanced mic/line + high quality preamps
  - ◆ Input sensibility +24dBu to -56dBu
  - ◆ Analog gain range: 0 to +80dB (0.5dB step)
  - ◆ E.I.N. < -126dBu Dynamic range > 115dB
  - ◆ THD+N < -90 dB
- Phantom power +48V, individually controllable for each input
- A linear 0.5 dB step digital attenuator/gain gives access to an input sensibility from -56dBu to +24dBu.
- +48V phantom power activation per channel, preamp value setting.
- 16 high quality balanced outputs with Dynamic range > 112 dB and THD+N <-90 dB
- Remote management with AVS-Monitor software through the IP, Dante, AVB or EtherSound Network
- Individual gain control of each output
- An internal smart design that reduces loud noises during start-up and shutdown, meeting the usage constraints of high-power sound reinforcement systems
- 2 Sub-DB25 female connectors

Mechanical Specifications

- 200 x 100 x 40 mm: AuviTran Audio ToolBox platform AxC card format

Audio ToolBox Platform Overview

Smart, expandable, and sustainable: meet AuviTran's versatile and flexible platforms that brings convergence among network technologies and audio interfaces.

With two 19" rack chassis AVBx7 and AVBx3 both available in StageBox or Installation modes, plus 20 interface cards, build the configuration you need.

Applications

Suitable for all professional applications that request large numbers of high-quality Mic/Line inputs with a reduced size:

- Featuring extensive capacity of high-performance microphones and line pre-amplification, high class AD converter chips and excellent circuit design
- These card sets a new quality, price, density ratio standards for professional audio applications.
- Attenuation/gain settings and vu-meter can be controlled and monitored individually per channel via network for a remote management from virtually anywhere using AVS-Monitor via IP, Dante, AVB or EtherSound Networks
- Individual gains and +48V phantom activation remote controls are manageable by Yamaha HA remote protocol enabling direct control and monitoring from Yamaha console/mixer.

Technical Specifications

General	
Size	200 mm x 100 mm x 40 mm —AuviTran Audio ToolBox platform cards format
Power Supply	+12V / +3.3V - Through AuviTran Audio ToolBox backplane
Storage: Temp / Humidity	-5°C to 70°C / 0% to 95% (non-condensing)
Operating: Temp / Humidity	0°C to 50°C / 5% to 90% (non-condensing)
Connectors	2x female DB25 connectors Optional: DB25 to Euro-Block plug available

Audio Inputs	
Number of inputs	8 Mic/line inputs
Number of outputs	8 analogue outputs

Audio Inputs Specifications	
Sampling Frequency	44.1kHz, 48kHz, 88.2kHz or 96kHz
ADC resolution	24 bits
Input specification	Balanced Mic/line
Input maximum level	+24 dBu

Audio Inputs MIC / Line Technical Specifications	
Analog Gain Range	0 to +80dB (0.5 dB step)
Input sensibility	+24dBu to -56dBu
Input Impedance	2,7 kΩ (differential)
E.I.N. @ (Rs=150Ω G=+80dB)	-126dBu
Dynamic Range	> 115dB A-weighted (> 112dB un-weighted)
THD+N (1KHz)	< -90 dB
Frequency response	20Hz — 20kHz +/- 0.2dB)
Phantom Power	+48 V (individually controllable for each channel)

Audio Outputs Specifications	
Sampling Frequency	44.1kHz, 48kHz, 88.2kHz or 96kHz
D/A resolution	24 bits
Frequency response	20Hz — 20kHz (±0.2dB)
Dynamic Range (BW 22KHz)	>112dB A-weighted (>110 dB un-weighted)
THD+N (1KHz / BW 22KHz)	< -90 dB
Output Specification	balanced on DB-25 connectors, <100Ω Output Impedance
Output level pad for 0dBfs	+24dBu or +10dBu configurable by software via network
Output volume control	+10dB to -115dB with 0.5 dB step digital control by software via network with click and plop free management. Digital automatic mute @ zero-data with plop-free output mute
Output phase	Phase inversion configurable by software via network

Control and Monitoring Environment	
Audio ToolBox platform	AxC-AS16Mo are high density cards for the AuviTran Audio ToolBox platform
AVS-Monitor	AVS-Monitor enables to remotely set, control, and monitor an IP, Dante, AVB network and provides enhanced control pages to manage the AxC-AS8M/AxC-AS16M card specific parameters.
OS Supported	Windows 10/11 for 32-64-bit versions

Part number

AxC-AS16M8	AuviTran 16 high density mic/line inputs card with 2x Sub-DB25 female connectors
AxP-DSX8F	Optional cable with Sub-DB-25 to 8x female XLR3 for input DB25
AxP-DSX8M	Optional cable with Sub-DB-25 to 8x male XLR3 for output DB25
AxP-S8E	Optional Sub-DB-25 male plug towards 8x 3-pole Euroblocks

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