

AuviTran Audio ToolBox overview

AuviTran Audio ToolBox is a modular audio platform giving access to a large variety of professional audio networked configurations.

With a three slots 1U-19inch rack unit and several audio interface cards, you can build the configuration you need:

- EtherSound interface and ASIO interface
- MADI interface
- High quality analog input or output XLR connectors
- Analog inputs/outputs Euroblock connectors
- High quality mic preamp inputs
- AES/EBU inputs/outputs
- GPI/GPO interface

AuviTran Audio ToolBox is available in installation mode (Display in front and all connectors in the back) and can be configured as stage-box for live applications (Display, Network and Audio connectors in front, Power supply and GPIO on the back).



Mechanical Specifications

483 x 253x 44 mm (19" rack, 1 U height)



Audio Stream Input/Output (ASIO) is a computer soundcard driver protocol for digital audio specified by Steinberg, providing a low-latency and high fidelity interface between a software application and computer's soundcard or ASIO device. It allows software to have access to the multi-channel capabilities of a wide range of powerful audio devices. ASIO is a trademark and software of Steinberg Media Technologies GmbH



EtherSound™ enhances established technologies to provide easy-to-implement, high-quality audio networks. The patented EtherSound™ protocol provides fully deterministic, very low-latency (125µs plus 1.4µs per additional network node) transmission of synchronized audio channels over standard Ethernet. EtherSound™ provides a cost effective fully digital path between a virtually infinite number of networked audio devices with up to 128 channels of 24-bit digital audio at 48 KHz, with bi-directional status and control data. Off-the-shelf Ethernet components such as 100baseTX switch can be used to extend the number of audio devices, as well as the distance between the devices on the network.

Key features

- AuviTran Audio ToolBox platform 19" rack (1 U) chassis, providing up to three slots for AuviTran AxC interface cards, with an audio backplane connecting all inputs / outputs (physical and network)
- Vast choice of audio interface cards
- 4 smart configurable GPIO for powerful interactions with security application. They can also be set individually as ADC Input for local/remote fader or level control.
- AVBx3-ES100 is the Audio ToolBox platform equipped with one AxC-ES100 EtherSound card:
 - ◆ Two EtherCon connectors allowing 64 channels extraction and 64 channels insertion to ES100 network
 - ◆ ASIO through the third port (up to 64 channel in and 64 channel out)
- Remote management with ESMonitor software through the EtherSound Network.
- Dedicated control page for monitoring and controlling all the chassis and inserted cards parameters:

Audio ToolBox applications

Fixed installations (installation mode)



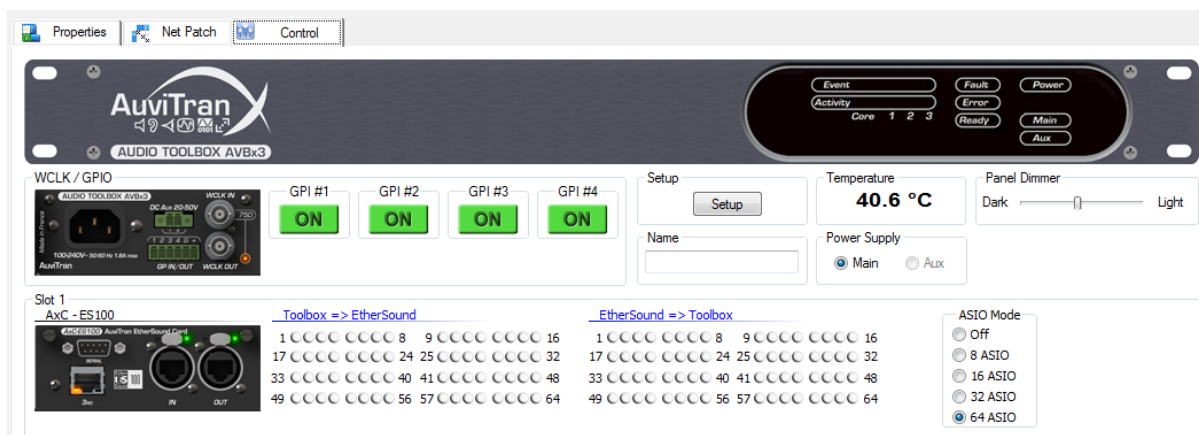
- ◆ Stadiums, concert halls
- ◆ Public Address, paging systems, theme parks and resorts
- ◆ Broadcast rack in central room
- ◆ Theatres, bars, pubs discos
- ◆ Exhibitions and conference centres
- ◆ Public address in transportation terminals ...

Live applications (stage-box mode)



- ◆ Live concerts and recording
- ◆ Live broadcast studios and OB Vans
- ◆ Recording studios...

ESMonitor Software control page



Technical Specifications

| AVBx3: 3 slots AuviTran Audio ToolBox 1Ux19" rack | |
|---|---|
| Size | 483 x 253x 44 mm (19" rack, 1 U height) One slot used by the EtherSound card and two slots available for audio inputs/outputs |
| Main Power Supply | 100-240 VAC – Maximum 50 W |
| Auxiliary Power Supply | Available in option |
| 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) |
| Front panel | Power Main/ Aux – Fault / Error / Ready – Networks and links Rx and Tx Activities - Events |
| Rear panel | 1xIEC power inlet for main AC power supply / 3 slots with backplane bus for interface cards / 2x BNC for Word clock / 1x6 pole Euroblock connector for GPIO |
| GPIO | 4 configurable GPIO. Can be set as 4xADC 8 bits 0-12V level input for fader control or level trigger detections |

| AxC-ES100: EtherSound card for the AuviTran Audio ToolBox platform | |
|--|---|
| Size | 200 mm x 100 mm x 40 mm – Format AuviTran Audio ToolBox platform cards |
| 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 | 2 x Neutrik EtherCon RJ45-XLR female connectors (EtherSound ES100 from/to links) 1 x RJ45 connector for third port (PC control and ASIO Streamer interface) 1 x Sub-D9 (RS232) serial interface |
| Audio Outputs | 64 channels extracted from any of the 64 EtherSound downstream channels or from any of the 64 EtherSound upstream channels in bidirectional mode @ 44.1 kHz or 48kHz |
| Audio inputs | 64 channels inserted from any of the 64 EtherSound downstream channels or from any of the 64 EtherSound upstream channels in bidirectional mode @ 44.1 kHz or 48kHz |
| Sample format | 24 bit |
| Sample rate | 44.1 kHz, 48kHz, 88,2 kHz, and 96 kHz |
| Synchronization | Automatic from EtherSound network |

| ASIO | |
|---------------|---|
| I/O count | Up to 64 ASIO inputs and 64 ASIO outputs from/to EtherSound |
| Sample format | 24 bit |
| Sample rate | 44.1 kHz, 48kHz, 88,2 kHz, and 96 kHz |

| Host PC minimum specifications | |
|--------------------------------|---|
| Operating system | Windows Seven/Vista/XP for 32 or 64 bit versions (XP not recommended for ASIO due to its poor NDIS priority management) |
| Processor | Dual core CPU, clock speed > 2GHz |
| Memory | At least 2 GB for Windows Vista and Seven |
| Network | 100Mbps full duplex Ethernet adapter with latest NDIS driver (Performances of the ASIO driver are directly related to NIC driver) |
| Storage | 7200rpm disk or better for ASIO |

| Control and monitoring Environment | |
|------------------------------------|---|
| AVS-ESMonitor | AVS-ESMonitor enables to remotely set, control and monitor an EtherSound network and provides enhanced control pages to manage the specific parameters of cards inserted in the different slots |

Part number

| | |
|--------------|---|
| AVBx3-ES100 | AuviTran Audio ToolBox 1U rack-unit equipped with one EtherSound ES100 card (2 slots available for other cards) |
| AVBx3-SBKIT | Kit "Stage-Box" for the AuviTran Audio ToolBox 1U rack-unit |
| AVBx3-12VKIT | Kit "12V-DC" for using a 12V redundant auxiliary supply |