

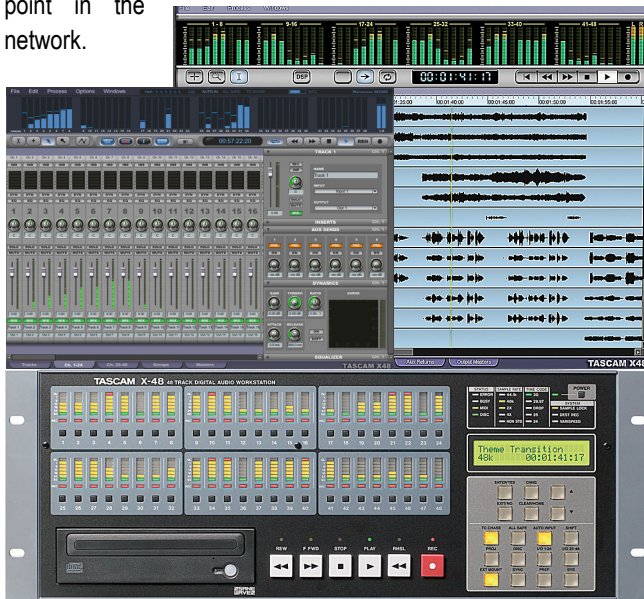
AVX48-ES100 for TASCAM X48 overview

AuviTran's AVX48-ES100 card brings EtherSound compatibility to TASCAM X48™ 48-Track Digital Audio Hard Disk Workstation.

Providing two EtherSound connectors, Third Port and a RS232 port for both very-low latency audio and data transmission, up to 24 audio lines can be sent to and received from a TASCAM X48™ to any other EtherSound compatible device, over regular CAT5 cables.

The AVX48-ES100 cards offer full network control of audio routing and constant network status monitoring making it ideal for live professional audio applications.

The Serial port allows serial port tunnelling from any other ES100 point in the network.



Key Features

- 128 EtherSound channels (64 upstream and 64 downstream) of 24 bits of audio transmission over standard CAT5 Ethernet cable in bidirectional mode or 64 channels in unidirectional mode.
- 24 inputs / 24 outputs can be dynamically "inserted" or "extracted" to/from any of the 128 or 64 EtherSound channels.
- Fully compatible with TASCAM X48™ 48-Track Digital Audio Hard Disk Workstation.
- 2 EtherSound™ connectors allow the daisy-chaining of multiple AVX48-ES100 cards or other 3rd-party EtherSound™ devices.
- Third port enables direct access of the device or remote control of an ES100 Network from this device.
- Serial Port tunnelling provides easy way to connect external devices.

Mechanical Specifications

220mm x 200mm x 45mm.



Applications

- Product for fixed installation with high quality Audio distribution, paging and zone management:
 - ◆ Stadium, Opera, theatre, museum and arts centre
 - ◆ Theme parks and resorts
 - ◆ Public Address: touring and fixed sound reinforcement
 - ◆ Broadcasting
 - ◆ Government administrative offices
 - ◆ Exhibition and conference Centres
- Product for Transportation public address
 - ◆ Train and bus stations terminals
 - ◆ Airport facilities and audio distribution
 - ◆ Cruise Ships paging including onboard entertainment and leisure centre audio facilities
- Product for Distribution, routing and control of audio for live and touring installation
 - ◆ Live broadcast PA/announcement
 - ◆ Live entertainment and concerts
 - ◆ TV and Radio Outside Broadcast
 - ◆ Electro acoustic music productions
 - ◆ Itinerant Museums and Theatres



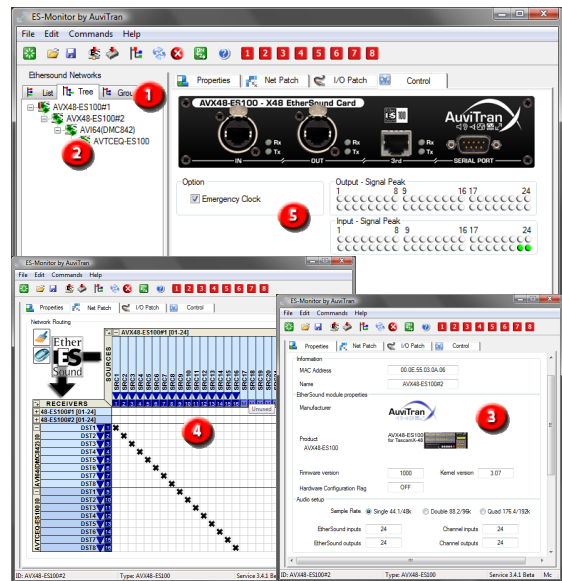
Audio Distribution over Standard Ethernet: EtherSound™ enhances established technologies to provide easy-to-implement, high-quality audio networks. The patented EtherSound™ protocol provides fully deterministic, very

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.

ESMonitor Software overview

Downloadable on www.auvitran.com web site, AuviTran's ES-Monitor is a Windows Vista/XP application running on a remote PC connected to EtherSound™ network segment, through standard Ethernet connections. ESMonitor offers:

1. Automatic discovery of AVX48-ES100 devices and/or any EtherSound™ compatible device on the segment, as well as automatic hierarchical interconnection between them. It enables the use of aliases to identify the modules, network name and group management.
2. Monitoring of connection, disconnection and error status for all devices and EtherSound™ links.
3. Automatic identification of manufacturer ID, product ID and the Channel I/O.
4. Network Patch assignment of any EtherSound device input to any reachable EtherSound™ device output.
5. Monitor signal meter of all AVX48-ES100 Inputs and outputs and Hardware serial port control setting for Serial port tunnelling



Technical Specifications

General	
Size	220 mm x 200 mm x 45mm
Power Consumption	<3 Watts
Power Supply	+5 V, GND
Storage: Temp/Humidity (non-condensing)	- 5°C to 70°C / 0% to 95%
Operating: Temp/Humidity (non-condensing)	0 °C to 50°C / 5% to 90%
Connectors	1x X48 interface ribbon cable connector, 1x Sub-D9 (RS232) serial interface, 2x RJ45- Ethercon™ connectors (EtherSound™ IN/OUT links), 1x RJ45- female connectors (third port connection),
Audio Inputs and Outputs	
Number of inputs	24x inserted to any of the 128x EtherSound™ channels(64 upstream or 64 downstream)
Number of outputs	24x extracted from any of the 128x EtherSound™ channels(64 upstream or 64 downstream)
Audio Specifications	
Synchronisation PLL locking range	44.1 kHz to 48 kHz ± 5%
Audio format	Linear PCM 24 bits
Synchronization	
External clock synchronisation	Automatic from network at 96kHz, 88.2kHz, 48 kHz or 44.1 kHz or manually from X48
Other Inputs/Outputs	
RS232 serial interface	9-pin D-Sub
Development and Integration Environment	
OS Supported	Windows Vista/XP/2000
ES-Monitor	ES-Monitor enables to remotely set, control and monitor an EtherSound network and provides enhanced property pages to manage the AVX48-ES100 for X48™ specific parameters.
Development Tools	PC Telnet based development tools allowing access and control of all of the Ethersound devices' parameters.

Part number

AVX48-ES100 EtherSound ES100 card for Tascam X48 48-Track Digital Audio Hard Disk Workstation

Version 1.00 Sept 2008