AuviTran Audio ToolBox
AxC-MADI

Instruction Manual

MADI Interface Card
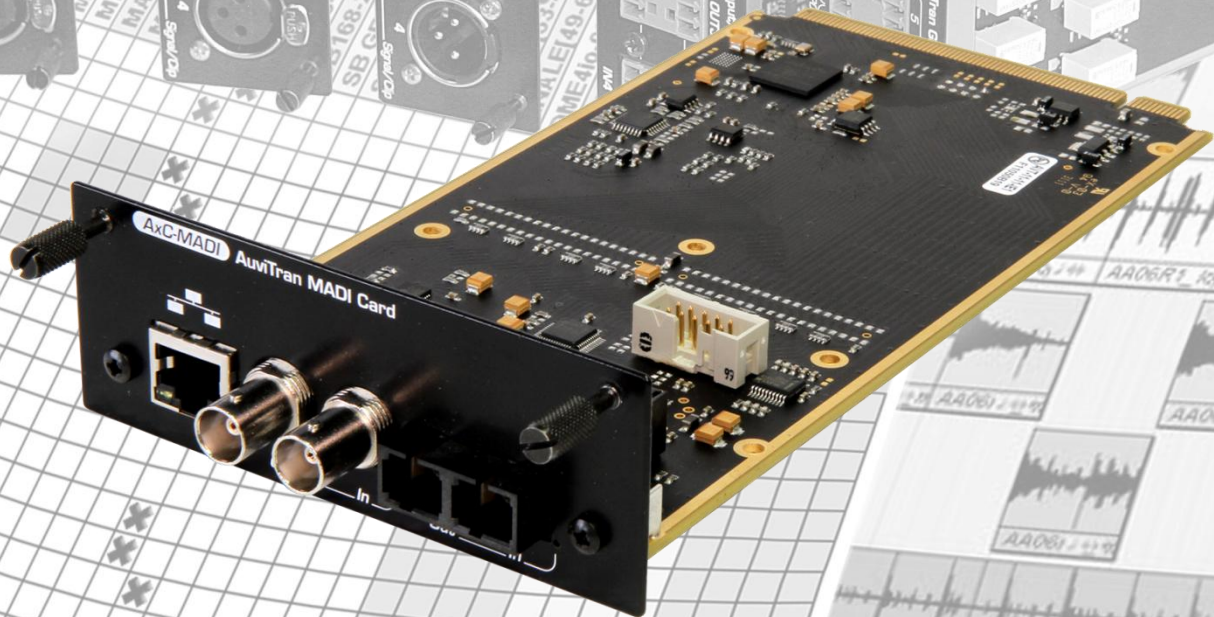
for Audio ToolBox Platform

PRECAUTIONS

- Do not apply excessive pressure on connectors or any other part of the board. Do not touch the metallic sharp parts (pins) of the product.

- This product is electrostatic sensitive; make sure you check this before touching or using it.

- The disconnect devices of the Audio ToolBox unit are the appliance inlet of the auxiliary power supply and the appliance inlet on the rear side of the unit. These must be easily reachable.

- To prevent electric shock, unplug the unit before handling. The achievement of other operations not mentioned in this document is prohibited. Repairs can be performed only by a technician trained and qualified.

- Each connection must be Safety Extra Low Voltage kind (SELV), and must stay inside buildings.

LIMITATION OF LIABILITY

In no case and in no way, the provider of this Product (AuviTran, the distributor or reseller, or any other party acting as provider) shall be liable and sued to court for damage, either direct or indirect, caused by and to the user of the board and which would result from an improper installation or misuse of the Product. "Misuse" and "improper installation" mean installation and use not corresponding to the instructions of this manual.

Please note that graphics given in this manual (drawings and schemes) are only examples and shall not be taken for a real vision of your own equipment configuration.

AuviTran is constantly working on the improvement of the products. For that purpose, the products functionalities are bound to change and be upgraded without notice. Please read carefully the User's manual as the new functionalities will be described therein.

TRADEMARKS

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AUVITRAN WEBSITE / MORE INFORMATION

Please visit our website for any question of further inquiry concerning our product range. Updates will also be posted when available.

<div align="center">

http://www.auvitran.com

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PACKAGE CONTAINS

- 1 AxC-MADI card + Thumbscrews

TABLE OF CONTENTS

1 WELCOME!

Thank you for purchasing AuviTran's Audio Toolbox AxC-MADI extension card. We hope you will enjoy using it.

You will find herewith the necessary instructions to use your product. Please read them carefully as misuse of this device might cause serious damage to you and your environment.

2 Overview

MADI offers a convenient and popular solution for transmission of up to 2x64 channels between two devices.

AxC-MADI card provides to the AuviTran Audio ToolBox platform a cost effective gateway to MADI connected devices.

Combined with other AuviTran Audio ToolBox cards, the AxC-MADI card opens exciting possibilities to the professional audio systems:

- EtherSound ES100 – MADI bridges, with unique connectivity possibilities (dynamic patching solution, remote control, ASIO recording/playback …)
- MADI based stage boxes, in combination with the high performance AxC-AX4M high class mic/line preamps cards

3 Technical Specifications

General	
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 BNC and 2 x SC Optical connectors

Audio Inputs	
Number of i/o	Up to 64 digital inputs/outputs routed through the AuviTran Audio ToolBox backplane to the other cards of the AuviTran Audio ToolBox range

Audio Inputs Specifications	
Sampling Frequency	44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz
A/D resolution	24 bits
Input specification	MADI 56 / 64 channels mode S-Mux or Multiple Rate

Integration Environment	
Audio ToolBox platform	AxC-MADI is one the cards for the AuviTran Audio ToolBox platform
AVS-ESMonitor	AVS-ESMonitor enables to remotely set, control and monitor an EtherSound network and provides enhanced control pages to manage the AxC-MADI card specific parameters.
OS Supported	Windows Seven/Vista/XP for 32 or 64 bit versions

4 FRONT PANEL / Wiring

AxC-MADI front panel

MADI connection is assumed via Co-Axial cabling or Optical connector. Automatic selection is default mode and performed by AxC-MADI, but mode can be forced using setup interface.
Network connector is reserved for future use.

5 CARD Insertion / Extraction

Please refer to AuviTran Audio Toolbox AVBx3 rack user's manual in order to known how to insert/extract your card properly.
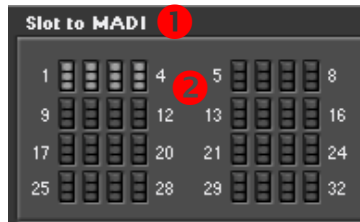
6 Software Remote Control

1-1 Device control

AuviTran's AVS ESMonitor software allows you to remote control your Audio Toolbox device, and thus your AxC-MADI. For general AVBx3 rack remote control features, please refer to AuviTran Audio Toolbox AVBx3 rack user's manual.
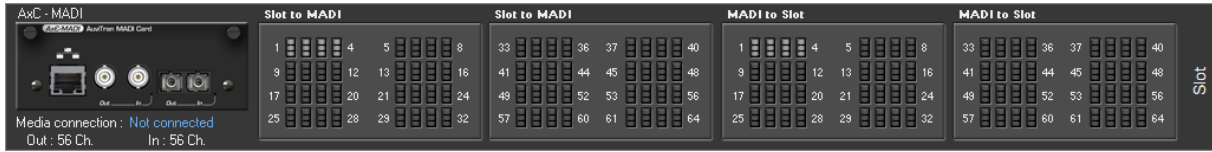
AxC-MADI control interface

Each block of 32 channels has its own feedback status:

Channel setup

❶ Channel setup indicator
❷ Signal/clip indicator

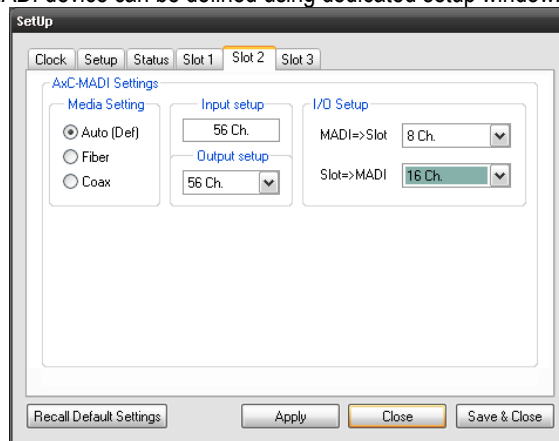In addition, device information can be found under front panel:

Device information

❶ Connection status
❷ Channel number status

1-2 Device setup

Advanced parameters for AxC-MADI device can be defined using dedicated setup window:

AxC-MADI setup window

Media settings can be set to:
- Auto-detection
- Forced to fiber
- Forced to coax

Output setup can be set to:
- 56 output channels
- 64 output channels

Number of channels exchanged with ToolBox slot can be set using combo box in I/O Setup:
- 0 to 64 MADI=>Slot channels by step of 4 channels
- 0 to 64 Slot=>MADI channels by step of 4 channels

7   Frequently Asked Question

- AVS-ESMonitor how to use rotary control?

Rotary control layout

Rotary control is designed to be easily controlled with a mouse. First way to interact with control is to left-click on control center and:
- Move the mouse while holding click to the top-right corner (red arrow) to increase value.
- Move the mouse while holding click to the bottom-left corner (blue arrow) to decrease value.
- Other mouse movement will have no action.

Second way to interact with the control is to place mouse over and
- Use the mouse-wheel up and down to respectively increase or decrease value more precisely.

- AVS-ESMonitor how to use slide control?
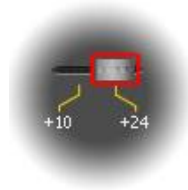
Slider control layout

Slider control is designed to be intuitively controlled with a mouse. Place mouse cursor over knob (red zone), left click and while holding mouse clicked, slide to desired value and released left click.