

AxC-SWD5G interface card

High-density network switching and optical conversion for space-saving professional rigs.

Using only one slot of either AVBx3 or AVBx7 Audio ToolBox, AxC-SWD5G provides the perfect bridge to add optical fiber to your network without external switch or media converter. Add more AxC audio interfaces to build the configuration you need on your Live Sound or Installed Sound projects. Reliable, sturdy, with no compromise over audio quality, AuviTran brings high end solutions to your audio workflows.

Key Features

Using one Audio ToolBox slot for **10 gigabit Ethernet ports**

Two manageable linkable **5 ports full speed gigabit Ethernet switches**

8 x **RJ45** Gigabit connectors

2 x SFP cages for two additional compact hot-pluggable SFP (mini-GBIC) transceivers available in many formats: Monomode or Multimode **Fiber Gigabit SFP** transceiver, Single **Fiber Bi-Directional Gigabit SFP** Transceiver, Copper/Ethernet **Cabling Gigabit SFP** transceiver

Split configuration for redundancy management with 2 individual switches

Internal Link configuration for 10 ports switch

Remote management with AVS Monitor software

Dedicated **control page** on AVS-Monitor for monitoring and controlling all the card parameters (Link/Split double switch, Connections)



Audio ToolBox Platform Overview

Smart, expandable and sustainable: meet AuviTran's versatile and flexible platforms bringing convergence among network technologies and audio interfaces. With two 19" rack chassis **AVBx3** and **AVBx7** both available in StageBox or Installation modes, plus 20 interface cards, build the configuration you need.

AVBx3 as Installation Mode



AVBx7 as StageBox Mode



AxC-SWD5G Applications

The AxC-SWD5G provides **8 x RJ45** Gigabit Ethernet Port, plus **2 x SFP** (Small Form-Factor Pluggable) cages for direct optical fiber connection via optional monomode or multimode SFP also called mini-GBIC (Gigabit Interface Converter) modules

AxC-SWD5G can be configured as one unified Ethernet switch featuring **10 Gigabit ports**, or two physically independent full speed Ethernet switches, each of them offering 5 Gigabit ports for split redundancy network

VLAN can be configured on any port to use multiprotocol (DANTE, ES100, COBRANET, DMX/Ethernet...) over a same optical fiber at same time on the AxC-SWD5G

Direct monomode/multimode **optical fiber connection(s)** to Audio ToolBox AVBx3 or AVBx7 without external switch or media converter

Replacement of up to **Two Ethernet gigabit switches** using only one Audio ToolBox slot for saving space in a rack

AVS-Monitor Software Control Page



Technical Specifications

General

Power Supply

+12V / +3.3V - Through AuviTran Audio ToolBox backplane

Temp/Humidity

Storage: - 5°C to 70°C / 0% to 95% (non-condensing)

Operating: 0 °C to 50°C / 5% to 90% (non-condensing)

Connectors

8 x RJ45 connectors, 2x SFP/GBIC connectors

Switch and CPU Specifications

Processor

Dual Core ARM processor
@ 204MHz, 192KB SRAM,
4MB flash, 8MB SDRAM

Dedicated Switch Memory

2 x 128KB packet buffer size with a data bus of 256 bits wide

Port Speed

Auto Neg. Or forced at 1Gigabit/s, 100MBit/s, 10MBit/s Full/Half duplex mode

Auto MDIX

Automatically adjusts for straight-through or crossover cables on all RJ45 ports

VLAN Capability

Up to 32 independent configurable VLAN

Performances

1000 MB latency < 2.9 µs (64-byte packets)
100 Mb Latency < 4.9 µs (64-byte packets)
MAC address table size of 2 x 8192 entries

Integration Environment

Audio ToolBox Platform

AxC-SWD5G can be inserted in any slot of any AuviTran Audio ToolBox platform.

AVS-Monitor

AVS-Monitor is a free Windows software that allows for the remote control and monitoring of all AuviTran devices, including all the AxC cards, as well as some Digigram PCIe interfaces cards.

Note that the routing on each AoIP network must be configured from the appropriate applications (Dante Controller, Hive, Milan Manager, Anemann, etc.).

Supported OS

Windows 10/11

Mechanical Specifications

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

Part Number

AxC-SWD5G

Dual linkable 5 Port Gigabit full speed switch for AuviTran Audio ToolBox

AxP-BD*

Single fiber bidirectional down monomode SFP (mini-GBIC) transceiver with half LC connector

AxP-BU*

Single fiber bidirectional up monomode SFP (mini-GBIC) transceiver with half LC connector

AxP-SX

Double fiber multimode SFP (mini-GBIC) transceiver with LC connector

AxP-LX

Double fiber monomode SFP (mini-GBIC) transceiver with LC connector

AxP-RJ

Copper/Ethernet cabling SFP (mini-GBIC) transceiver with RJ45 connector

*Notice AxP-BD and AxP-BU must be coupled as they use different wave lengths for bidirectional transmission/reception to work together in a single optical fiber.