

AxC-SWD5G Overview

As all AxC cards within the AuviTran range, the AxC-SWD5G can equally be used in AVBx3 or AVBx7 ToolBox. Using one slot only, it 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. Bring optical fiber into your network without additional external switch or media converter!

The AxC-SWD5G card has two configurations:

- 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.

Thanks to AVS-Monitor, the AxC-SWD5G can be fully and remotely managed, using either: IP, Dante or EtherSound networks. AVS-Monitor will also provide statistics on any port, an easy way to dynamically check and analyse, in real time, the capability of the links.

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



AxC-SWD5G Applications

- 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.

Audio ToolBox Platform Overview

AuviTran Audio ToolBox is a modular audio platform giving access to a large variety of professional audio networked configurations. With two 19" rack chassis AVBx3 and AVBx7 both available in StageBox or Installation variant plus 14 interface cards insertable in every ToolBox slot you can build the configuration you need.

Key Features

- Two manageable linkable 5 ports full speed gigabit Ethernet switches
- Using one Audio ToolBox slot only for 10 gigabit Ethernet ports
- 8 x RJ45 Gigabit connectors
- 2 x SFP cages for two additional compact hot-pluggable SFP (mini-GBIC) transceivers available in many formats:
 - Multimode Fiber Gigabit SFP transceiver
 - Monomode 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 ESMonitor software through the IP Network
- Dedicated control page on AVS-Monitor for monitoring and controlling all the card parameters (Link/Split double switch, Connections)

Mechanical Specifications

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

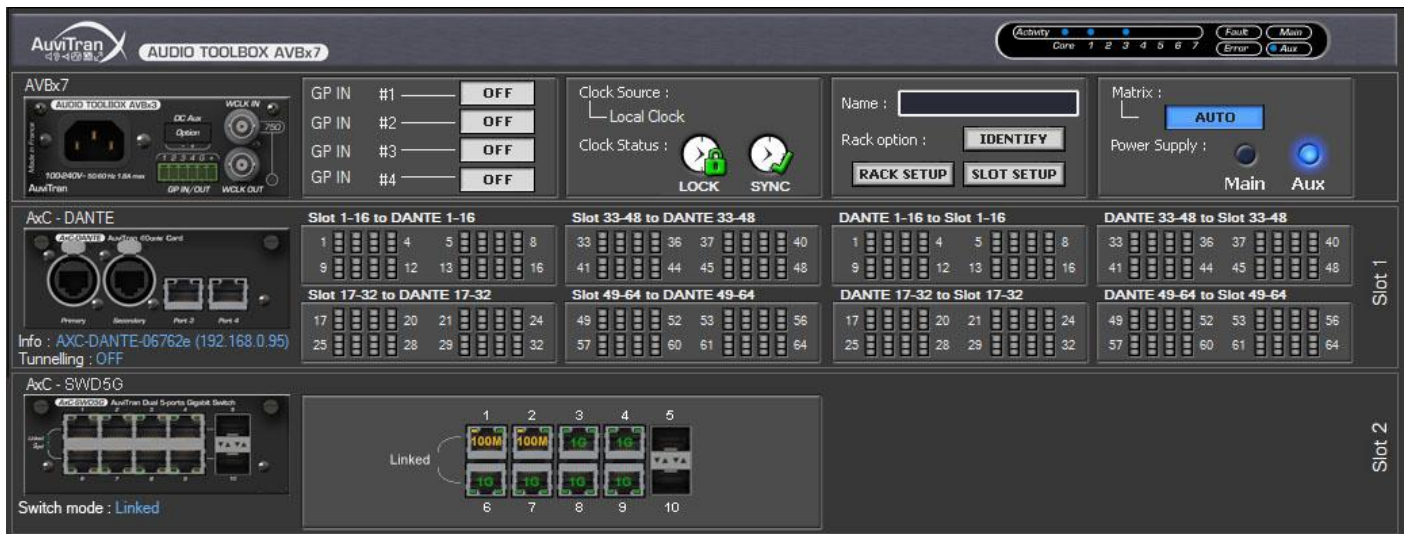
AVBx7 is a 2U AuviTran Audio ToolBox platform. It is a 19 inches rack chassis, providing seven slots for AuviTran AxC interface cards.



AVBx3 is a 1U AuviTran Audio ToolBox platform. It is a 19 inches rack chassis, providing three slots for AuviTran AxC interface cards.



AV-Monitor software control page



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 40°C / 5% to 90% (non-condensing)
Connectors	8 x RJ45 connectors, 2x SFP/GBIC connectors
Switch and CPU Specifications	
Processor	Dual Core ARM processor @ 204 MHz, 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, 100 Mbit/s, 10 Mbit/s Full /Half duplex mode
Auto MDIX	Automatically adjusts for straight-through or crossover cables on all RJ45 ports
VLAN capability	Up to 2 x 64 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
Audio Video Bridging (AVB) Capability	AVB Ready _ Supports 802.1 Audio Video Bridging (AVB) Standards - 802.1AS – Precise Timing Protocols - 802.1Qat – Stream Reservation Protocol - 802.1Qav – Egress Pacing and Jitter Tolerance
Integration Environment	
Audio ToolBox platform	AxC-SWD5G can be inserted in any slot of any AuviTran Audio ToolBox platform
AVS-ESMonitor	AVS-Monitor enables to remotely set, control and monitor a Dante or an EtherSound network and provides enhanced control pages to manage the AxC-SWD5G card specific parameters
Supported OS	Windows 8/7/Vista/XP for 32 or 64 bit versions

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.