



MEDIA LINKS®
Pixel Perfect Delivery

Bi-Directional High Density AES Audio Module Adapts Local Audio Feeds to the Wide Area Network via the MD8000 SW-CNT

FUNCTIONS

- External interface to AES user circuits
- Electrical Interface
- Transparent with Robust FEC
- Hitless Path Failure Protection

FEATURES

- 4 Channel I/O
- AES Unbalanced Interface
- Coax Interface
- Tx & Rx in one Module

APPLICATIONS

- Carrier Class Media Networks
- High Performance Studio Interconnects
- Flawless Contribution Video Transport
- Reliable Content Delivery Systems
- Integrated Live, Recorded and File-Based Communications

MD8000-AIF-4S

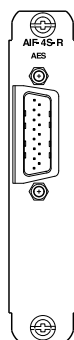
8 Port AES Audio Module

The AIF-4S board accepts four channels of AES audio, encapsulates each of the signals into Ethernet frames and transfers them to the MD8000 L2 SW-CNT modules. In addition, the AIF-4S board accepts Ethernet packets transferred from the SW-CNT and provides 4 unique AES audio outputs.

The AIF-4S can operate in one of two modes. Mode 1 allows independent encapsulation and addressing of each AES audio stream. Single AES streams can be sent to up to 4 destinations and received from up to 4 origination points.

Mode 2 is provided for multi-channel applications like 5.1 audio. The AIF-4S can be configured to group 3 AES audio channels into a single Ethernet stream. This provides phase lock and equal latency for each of the channels. In this mode of operation, a single Ethernet stream is used for 3 AES signals and a second stream for the 4th AES signal. Mode settings can be applied uniquely to the transmitted and received signals.

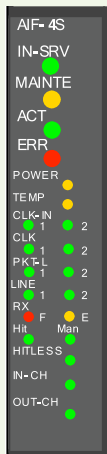
The AIF-4S allows the sending of robust Forward Error Correction (FEC) and provides Lossless/Hitless path protection switching for extremely robust signal transport.



Name	Type	Pin	Description
AES	D-Sub (75ohm)	1	GND
		2	AES/EBU input channel 2
		3	AES/EBU input channel 1
		4	GND
		5	GND
		6	AES/EBU output channel 1
		7	AES/EBU output channel 4
		8	GND
		9	GND
		10	AES/EBU input channel 4
		11	AES/EBU input channel 3
		12	AES/EBU input monitor output
		13	AES/EBU output channel 2
		14	AES/EBU output channel 3
		15	GND

Rear Board Connectors

MD8000-AIF-4S



Name	Condition to illuminate
IN-SRV	● Status Monitored
MAINT	● Under Maintenance
ACT	● Normal Operation
ERR	● Board Failure Detected
POWER	● Board Power Voltage Low (Warning)
TEMP	● Board Temperature High (Warning)
CLK-IN1/2	● Unused
CLK1/2	● Unused
PKT-L1/2	Input stream of the selected channel ● 1: Packet input from Line 1 ● 2: Packet input from Line 2
LINE1/2	● SWCNT for the selected channel 1: SWCNT #1; 2: SWCNT #2
RX-F/E	● RX-F: Uncorrectable Error Detected ● RX-E: Correctable Error Detected
Hit/Man	● Hit: Hitless Switching mode ● Man: Manual Switching mode
HITLESS	● Hitless Switching can be enabled
IN-CH	● Input Present at selected channel
OUT-CH	● Output Present at selected channel

Front Panel LED

SPECIFICATIONS

Input	Impedance	75 ohm, unbalanced	AES-3id-1995
	Return Loss	25 dB or more (0.1 MHz – 6.144 MHz)	
	Connectors	D-Sub	
Output	Impedance	75 ohm, unbalanced	AES-3id-1995
	Return Loss	25 dB or more (0.1 MHz – 6.144 MHz)	
	Voltage	1.0 ± 0.2V	
	DC Offset	0 ± 50 mV	
	Connectors	D-Sub	
Monitor Output	Connectors	D-Sub	
Delay		8.6 ms	End to end with or without FEC
Bandwidth		4.8 Mb	FEC Off

Specifications subject to change

ORDERING INFORMATION

ORDER NR

ORDER CODE

4 Port bi-directional AES/EBU Audio Interface Module	MD801030	AIF-4Sch-F
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