

MEDIA LINKS®

Pixel Perfect Delivery

Bi-Directional HD-SDI / SD-SDI / DVB-ASI Video Module Adapts Local Video Feeds to the Wide Area Network via the MD8000 SW-CNT

FUNCTIONS

- External interface to HD/SD/DVB-ASI user circuit
- Optical or Electrical Interface
- Transparent with Robust FEC
- Hitless Path Failure Protection

FEATURES

- HD/SD/ASI in one Module
- 297M Optical Interface
- 292M/250M Coax Interface
- Tx & Rx in one Module

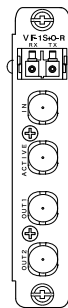
APPLICATIONS

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

**MD8000-VIF
HD/SD
Video Module**

The VIF board accepts one channel of HD-SDI, SD-SDI, or DVB-ASI signal input, and encapsulates the signal into Ethernet frames with or without robust Forward Error Correction (FEC) and transfers them to the MD8000 SW-CNT modules. Input to VIF can be via coax or fiber. Input monitor is always coax, regardless of input.

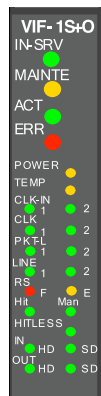
In addition the VIF board accepts Ethernet packets transferred from the SW-CNT and provides a unique video output. The Ethernet stream can originate anywhere in the MD8000 network and can be HD-SDI/SD-SDI or DVB-ASI. Outputs are provided for coax and fiber. The VIF provides robust Forward Error Correction (FEC) and Lossless/Hitless path protection switching for extremely robust signal transport.



Name	Type	Description
TX	LC (Optical)	HD/SD/DVB Optical Output
RX	LC (Optical)	HD/SD/DVB Optical Input
IN	BNC (75ohm)	HD/SD/DVB Input
ACTIVE	BNC (75ohm)	HD/SD/DVB Active Output
OUT1/2	BNC (75ohm)	HD/SD/DVB Output

Rear Board Connectors

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
RS-F/E	● RS-F: Uncorrectable Error Detected ● RS-E: Correctable Error Detected
Hit/Man	● Hit: Hitless Switching mode ● Man: Manual Switching mode
HITLESS	● Hitless Switching can be enabled
IN-HD/SD	● HD: HD Input ● SD: SD or DVB-ASI Input
OUT-HD/SD	● HD: HD Output ● SD: SD or DVB-ASI Output



Front Panel LED

MD8000-VIF

SPECIFICATIONS

Input/Output Signal	HD-SDI	Format	1080i (50 Hz, 59.94 Hz, 60 Hz) 720p (50 Hz, 59.94 Hz, 60 Hz); SMPTE 292M	
		Embedded Audio	16CH	
	SD-SDI	Format	625i (50 Hz), 525i (59.94 Hz); SMPTE 259M	
		Embedded Audio	8CH	
	Connectors	Input	1x BNC	
		Active Out	1x BNC	
Output		2x BNC		
HD-SDI INPUT	Impedance	75 ohm, unbalanced		
	Return Loss	15 dB or more (5 MHz – 742.5 MHz) 10 dB or more (742.5 MHz – 1.485 GHz)		
	Cable Length	Max 100 m (at 5C-FB coax cable)		
SD-SDI/DVB-ASI INPUT	Impedance	75 ohm, unbalanced		
	Return Loss	15 dB or more (5 MHz – 270 MHz)		
	Cable Length	Max 200 m for SD-SDI, 100 m for DVB-ASI (at 5C-2V coax cable)		
OUTPUT / ACTIVE	HD-SDI	Signal Amplitude	800 mVp-p ± 10% (75 ohm Load)	
		Rise Time	Less than 270 ps (at 20% – 80% Amplitude)	
		Fall Time	Less than 270 ps (at 20% – 80% Amplitude)	
		Impedance	75 ohm, unbalanced	
		Return Loss	15 dB or more (5 MHz – 742.5 MHz) 10 dB or more (742.5 MHz – 1.485 GHz)	
		DC Offset	0.0V ± 0.5V	
		Jitter	Timing: 1 UI or less Alignment: 0.2 UI or less	
		SD-SDI	Signal Amplitude	800 mVp-p ± 10% (75 ohm Load)
			Rise Time	0.4 – 1.5 ns (at 20% – 80% Amplitude)
	Fall Time		0.4 – 1.5 ns (at 20% – 80% Amplitude)	
	ABS (Rise – Fall)		0.5 ns or less	
	Time Difference		Less than 0.5 ns	
	Impedance		75 ohm, unbalanced	
	Return Loss		15 dB or more (5 MHz – 270 MHz)	
	DC Offset		0.0V ± 0.5V	
	Jitter		Timing: 0.2 UI or less Alignment: 0.2 UI or less	

Specifications subject to change

ORDERING INFORMATION

ORDER NR

ORDER CODE

HD/SD/SDTI/DVB-ASI Bi-Directional Video Module with electrical In- & Output	MD801001	VIF-1Sch-F
HD/SD/SDTI/DVB-ASI Bi-Directional Video Module with electrical and optical In- & Output	MD801002	VIF-1Sch-F+Opt
DVB-ASI, HD-SDI bi-directional Video Module with 2022-1/2	MD801037	VIF-1Sch-F(2022)
DVB-ASI, HD-SDI bi-directional Video Module with 2022-1/2 w Optical Interface	MD801038	VIF-1Sch-F(2022)-A

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