



Description

The VIM-1032 is similar to the VIM-1832, except it contains no inputs (returns) AND no clock. This device is normally used for achieving an optical “Split” on a Series 32 fiber optic audio transport system.

The VIM-1032 is normally used in connection with the VIS-1832 or VIS-4832. This device contains 32 analog line level AND 32 AES digital outputs. The VIM-1032 is supplied with a single receive LC fiber connector (other connector types possible). It also contains a single LC fiber “thru” connector (transmit only) allowing all data coming into the device to be output on fiber and transported to another location. The VIM-1032 can operate at 48k or 96k. The clock rate is determined automatically and operate at the same rate as the VIM-1832 or VIM-MY32M in the system. The VIM-1032 must be connected to a system containing a VIM-1832 or VIM-MY32M YGDAI card which provide clock to the system. There are “sync” status LED’s on the front and rear of the unit. These LED’s will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present.

The “control” connection is a TTL data port which appears on an EtherCon® connector. It allows LightViper accessory devices such as the DMX4o (DMX lighting control) or MD3 (RS422/232/MIDI) to be connected to the unit. The EtherCon® output of the DMX4i or RJ45 on the MD-3 is input to the VIS-1832 via the “control” EtherCon® connector, combined with the audio input data, and transported via fiber to the VIM-1832 & VIM-1032. This data is then output from the “control” EtherCon® connector on the VIM-1832 & VIM-1032 and input into a DMXo or MD-3 where the TTL data is translated back into the original format. TTL data can only be output from the VIM-1032 as there are no audio inputs (returns) on the VIM-1032. AC power is via a standard IEC connector. The unit can operate at any voltage 50-60Hz, 90-250v AC.

Architect’s Specifications

The device shall be a 1U rack mount unit with venting on the front panel and on the reversible rack ears. It shall be fan cooled. The device shall provide 32 analog line level outputs on 4 DB25 connectors AND 32 AES digital outputs on 2 DB25 connectors. There are no inputs (returns) on the device. The device shall contain multi mode optics utilizing an SFP transceiver, with single mode SFP optics available as an option. There shall be a single receive fiber presented on an LC connector (other connector types possible). There shall be a single LC fiber-optic “thru” connector (single fiber) allowing all data coming into the device to be output on fiber and transported to another location. There shall be no limit to the number of units which can be connected via the fiber “thru” to achieve a distributed system. The device shall operate at 48k or 96k. The device shall not contain a clock. The device must be connected to a system containing a LightViper device that provides the clock. The device shall automatically operate at the same clock rate as the system it is connected to. The device shall have a word clock output on a single BNC connector and a super clock output on a single BNC connector. The device shall contain LED sync indicators on the front and rear of the unit. These LED’s will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present. There shall be a TTL data port labeled “Control” presented on a EtherCon® connector. The device shall operate at any voltage 50-60Hz, 90-250v AC utilizing a standard IEC connector. The device shall contain a 5x20 mm, 1A Slo-Blo power fuse. The device shall be the LightViper VIM-1032.

Features & Benefits

- Fiber runs up to 2km (multimode), 20km (single mode)
- Lossless optical “thru” for distributed systems
- 32 Simultaneous analog & digital outputs
- 48k or 96k operation
- System can distribute clock

Applications

- Used for “splits”
- Theme Parks
- Churches
- Performing Arts Centers
- Stadiums
- Live Sound Production

Ordering Information

VIM-1032 - S - O2

Optical Connector

LC
O2 = Neutrik OpticalCon Duo
O4 = Neutrik OpticalCon Quad

Fiber Type

M = 62.5/125µm Multimode (1310)
E = 50/125µm Multimode (1310)
W = 62.5/125µm Multimode (850)
S = 9/125µm Singlemode (1310)

General Specifications

Total Harmonic Distortion + Noise ^{*1}	Less than 0.01%	1 KHz @ +4 dBu
Frequency Response	± 0.5 dB	20-20kHz @ +16 dBu
Analog Dynamic Range	102 dB	
Crosstalk	5 dB above noise floor	
Sampling Rate	24 bit / 96kHz or 24 bit / 48 kHz	
Latency	630 μs, analog input to analog output. 20μs one way, digital input to digital output.	
Operating Temp	0 to +50°C ambient temperature.	
Cooling	Fan cooled	
Sync LED	LED (green) indicates optical link OK, LED (red) indicates problem with optical link, LED (off) indicates no power.	
AC Power	Universal 90-250 VAC, 50/60 Hz, IEC connector with fuse	
Max Current Rating	0.473 mA @ 90V	
On / Off Control Date + MIDI	RJ-45 connector for logic level control, CMOS or TTL at 2 MHz max per channel.	
Dimensions	1 Rack Unit X 6.5" Deep	
Weight	6.5 lbs	

**1-Hum & Noise are measured with an AES17 compliant filter at 20 kHz. Temperature condition @+10 - +25° C.*

Output Characteristics

Connection	Actual Source Impedance	For Use With Nominal	Output Level ^{*1}		Connector
			Nominal	Max Before Clip	
Analog Outputs 1-32	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+19 dBu (7 V)	DB-25, Tascam™ DA-88 pinout, 8 channels per connector
Digital Outputs 1-32	AES3 Digital				DB-25, 16 channels per connector

**1-0 dBu is referenced to 0.775 Vrms.*

Fiber Connection Characteristics

Connection	No. of Fibers	Optical Type	Optical Device	Connector Type
Primary Rx only	1	Multimode. Singlemode optional.	Optical SFP transceiver	Single LC. ST or Neutrik optional
"Thru"Tx only	1	Multimode. Singlemode optional.	Optical SFP transceiver	Single LC. ST or Neutrik optional

