VIM-2032

SPLIT/OUTPUTS FOR VIM-MY32M YGDAI CARD

Description

The VIM-2032 has been designed to operate with the LightViper VIM-MY32M YGDAI card. In can be used in situations where the user has a YGDAI card from another manufacturer already in place, thus limiting the number of input channels accessible using LightViper VIM-MY32 YGDAI cards.

The VIM-2032 acts as a slave card, providing 32 channels of analog AND 32 channels of digital output. This enables the user to gain access to 32 channels of inputs, including a 16 channel "split" of the inputs coming into the VIM-MY32M master and the 16 channels that would normally come into the VIM-MY32S slave card, via a Neutrik MiniCon® connector. Any of these 32 inputs are then accessible on analog line level or digital outputs. The VIM-2032 contains a single LC fiber "thru" connector (transmit only) allowing all 32 channels of audio coming into the device to be output on fiber and transported to another location.

The VIM-2032 operates only at 48k. The VIM-2032 must be connected to a VIM-MY32M YGDAI card. There are work clock and super clock outputs on BNC connectors. There is a Neutrik MiniCon® connector used for connecting the VIM-2032 to the VIM-MY32M master card. There are "sync" status LED's on the rear and front 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 VIM-2032 via the "control" EtherCon® connector, combined with the audio input data, and transported via fiber to the VIS-1832 or VIS-4832. This data is then output from the "control" EtherCon® connector on the VIS-1832 or VIS-4832and input into a DMXo or MD-3 where the TTL data is translated back into the original format. The "control" port can also be used to transport Yamaha™ HA control. Using a DGL-422 dongle, the D9 control output of the Yamaha™ is connected to the RJ45 on the VIM-2032. For connection with a Yamaha ™ LS9, there is a toggle switch that can be used to capture the control information internally as opposed to the 9-pin to RJ45 connection. AC power is via a standard IEC connector. The unit can operate at any voltage 50-60Hz, 90-250v AC.

Features & Benefits

- Recaptures all inputs on a Yamaha console due to other manufacturers YGDAI cards limiting access to inputs
- Lossless optical "THRU" for distributed systems
- 32 Simultaneous analog & digital outputs

Applications

- Provides access to all inputs when YGDAI card slots are limited

Ordering Information

VIM-2032 - 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)

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. The input to the device shall be made via Neutrik MiniCon® connector. 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. The device shall operate at 48k only. The device shall not contain a clock. The device must be connected to a LightViper VIM-MY32M YGDAI card. 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 "control" port can also be used to transport Yamaha ™ HA control. Using a DGL-422 dongle, the D9 control data output of the Yamaha ™ is connected to the Neutrik EtherCon® on the device. For connection with a Yamaha ™ LS9, there shall be a toggle switch that can be used to capture the control information internally as opposed to the 9-pin to RJ45 connection. 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-2032.

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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	10 µs one way digital, 320 µs digital to analog 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 Data + 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.		

Input Characteristics

MiniCon Input	Hi speed encoded TDM aggregate

Output Characteristics

Connection	Actual Source Impedance	For Use With Nominal	Output Level*1 Nominal	Max Before Clip	Connector
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
"Thru" Tx only	1	Multimode. Singlemode optional.	Optical SFP transceiver	Single LC. ST or Neutrik optional