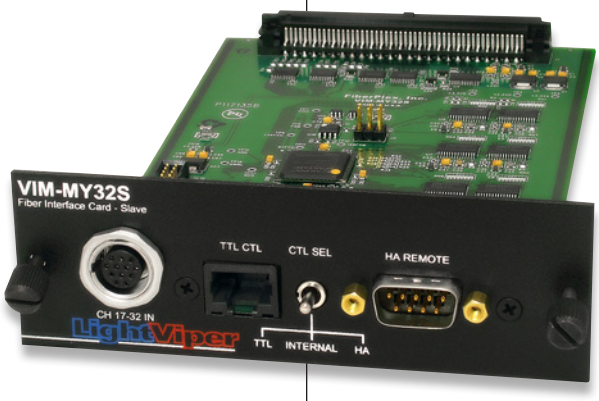
# VIM-MY32M and VIM-MY32S

**MY CARDS FOR YAMAHA YGDAI CARD SLOTS**


## Description

The LightViper VIM-MY32 YGDAI cards are designed for use with Yamaha™ digital equipment containing YGDAI (Yamaha General Digital Audio Interface) card slots. The VIM-MY32 cards are used in place of the VIM-1832 at the "tail" or mixer end of the system.

The VIM-MY32 cards can be used in connection with the VIS-1832 or VIS-4832. When used with the VIS-4832 and Yamaha™ AD8HR mic pre-amps, The Yamaha™ AD8HR mic pre-amps can be remotely controlled through the LightViper system using a Yamaha™ console. **VIM-MY32M Master Card** - this card provides 16 direct digital inputs (sends) and 8 digital outputs (returns) from the Yamaha™ device. The VIM-MY32M comes standard with LC fiber connectors however it can also be fit with ST, Neutrik Duo or Neutrik Quad tactical connectors. The VIM-MY32M contains multimode optics (singlemode optional).

The VIM-MY32M contains the clock for the LightViper system. There is an internal switch to select whether the VIM-MY32M is the master clock, or whether the VIM-MY32M will slave to the consoles master clock. **The VIM-MY32 cards only operate at 48k.** The VIM-MY32M provides 2 fiber-optic pass thru connectors which allow inputs 17-32 to be fed into a second master card. There is a "sync" status LED on the front of the VIM-MY32M. This LED will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present.

The VIM-MY32M contains a Neutrik MiniCon® connector to enable connection to the VIM-MY32S slave card. **VIM-MY32S Slave Card** - there is no fiber-optic connection to the VIM-MY32S slave card. It connects to the VIM-MY32M master card via the supplied MiniCon® cable. The VIM-MY32S also contains an RJ45 connector for TTL data input, and a DB9, both of which can be used for sending Yamaha™ HA remote control over fiber with the audio returns. The toggle switch is used to choose which connector is active - the TTL connector or the DB9 connector. To use the TTL data port for Yamaha HA remote control, a LightViper DGL-422 dongle is required.

## Features & Benefits

- Digital direct input to Yamaha™ YGDAI card slots
- Transports Yamaha™ HA remote control
- Completely digital fiber optic interface

## Applications

- Churches
- Performing Arts Centers
- Live Sound Production
- Theme Parks

## Ordering Information

VIM-MY32S Slave Card (no options)

VIM-MY32M - 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 Devices shall be formatted to fit any Yamaha™ YGDAI card slot.

**Master Device** - This device shall provide 16 direct digital inputs (sends from stage) and 8 digital outputs (returns to stage). This device contains the master clock. There shall be a slide switch on this device to select whether this device provides master clock or will be slave to the console clock. This device shall only operate at 48k. This device shall contain a multimode transceiver, with singlemode optics available as an option. This device shall contain 1 transmit / receive fiber pair presented on LC connectors (other connector types possible). These connectors receive 32 inputs with 1-16 sent to this device, and inputs 17-32 being output on a second LC pair to be connected to a second master device. This device shall contain an LED sync indicator. This LED will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present. This device shall contain a MiniCon® connector to enable connection to the slave device.

**Slave Device** -There shall be a TTL data port on an RJ45 connector and a DB9 connector. The DB9 shall connect directly with the DB9 HA control connector on the Yamaha™. Use of the RJ45 "TTL" connector to transport Yamaha™ control requires a LightViper DGL- 422 dongle which translates Yamaha™ control protocol into TTL data. There shall be a toggle switch to choose which of these connectors is active. These devices shall be the LightViper VIM-MY32M (master) and VIM-MY32S (slave).

# VIM-MY32M and VIM-MY32S

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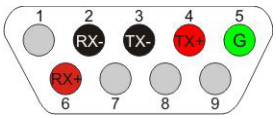
## General Specifications

| | | |
|---|---|---|
| Total Harmonic Distortion + Noise*1 | Less than 0.01% | 1 KHz @ +4 dBu |
| Frequency Response | ± 0.5 dB | 20-20kHz @ +16 dBu |
| Dynamic Range | 102 dB | |
| Crosstalk | 5 dB above noise floor | |
| Sampling Rate | 24 bit / 48 kHz | |
| Latency | 10 µs one way digital | |
| Operating Temp | 0 to +50°C ambient temperature. | |
| Slave LED | LED (green) indicates that VIM-MY32S Slave card is present and in sync. LED (flashing) indicates Slave card is present but not in sync. LED (off) indicates no Slave card present. | |
| Sync LED | LED (green) indicates optical link OK, LED (flashing) indicates problem with optical link, LED (off) indicates no power. | |
| AC Power | N/A | |
| Max Current Rating | VIM-MY32M<br>VIM-MY32S | 3.5 W from card slot<br>3.5 W from card slot |
| On / Off Control Date + MIDI | RJ-45 connector for logic level control, CMOS or TTL at 2 MHz max per channel. | |
| Dimensions | VIM-MY32M<br>VIM-MY32S | 6.392" L X 4.740" W X 1.575" H (161mm X 100mm X 40mm)<br>6.392" L X 4.740" W X 1.575" H |
| Weight | VIM-MY32M<br>VIM-MY32S | 0.8 lbs (0.4 Kg) max<br>0.4 lbs (0.2 Kg) |

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

## HA Connector Pin Outs

| | |
|---|---|
| 1. | Unused |
| 2. | RX - |
| 3. | TX - |
| 4. | TX + |
| 5. | Ground |
| 6. | RX + |
| 7. | Unused |
| 8. | Unused |
| 9. | Unused |




## Control Circuits RJ-45 Pin Outs

| | |
|---|---|
| 1. | GND |
| 2. | TX1 |
| 3. | TX2 |
| 4. | TX3 |
| 5. | RX1 |
| 6. | RX2 |
| 7. | RX3 |
| 8. | VCC +5VDC |