

## LambdaDriver® -2x 1Gbps Muxponder (EM2009-GM2)



EM2009-GM2

### Features

- Link Integrity Notification (LIN) support
- Remotely activated Local or Remote LoopBack
- SFP Digital Diagnostics monitoring
- Y-cable redundancy.
- Automatic Laser Shutdown (ALS)
- 2 x 1GE or 2 x 1FC TDM operational mode
- Hot swappable

### Applications

- GE TDM aggregation for further CWDM/DWDM transport
- Doubling capacity of existing GE links over Multimode or Singlemode fiber

The LambdaDriver EM2009-GM2 Muxponders use advanced TDM technology to transport 2 distinct 1Gbps Gigabit Ethernet or Fibre Channel data streams into a 2.7 Gbps WDM trunk port over a single pair of fibers. This solution provides significant cost reduction and excellent fiber utilization in comparison to discrete optical multiplexing.

The EM2009-GM2 incorporates 3 SFP interfaces, two for the access ports and one for the trunk (WDM) port, that can accommodate various types of SFPs. Typical applications include point-to-point standalone interconnection of 2 separate LANs (one per access port).

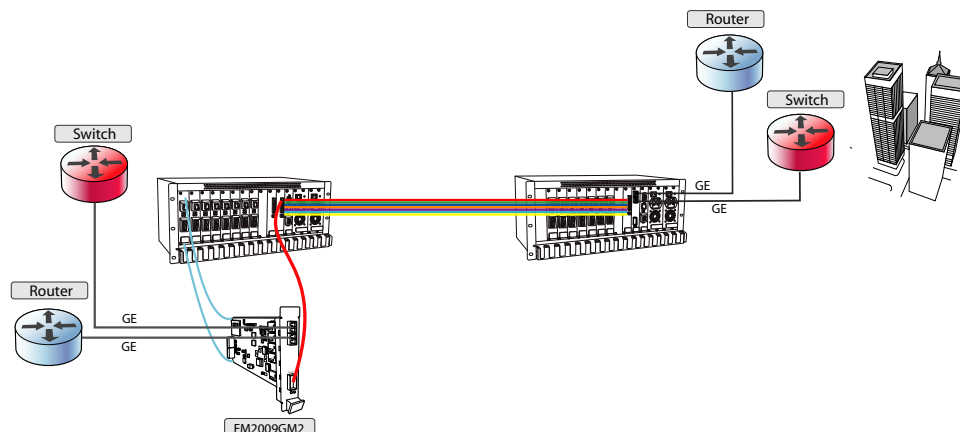
The GE or Fibre Channel operational mode can be selected by on-board jumpers and it is for both access interfaces.

Link Integrity Notification (LIN) functionality is supported by the modules.

The automatic Laser Shutdown (ALS) feature automatically reduces the optical power of the transmitters to an eye safe level in case of a broken link. The ALS feature is implemented on both ports of the transponders (WDM trunk and Terminal equipment access port).

The muxponders also support the Y-Cable based fast switch-over protection protocol. In this protection mode two adjacent transponders in a LambdaDriver® chassis run a protocol that maintains "operational" and "standby" transponders for a 1Gbps port of an access device.

The modules are manageable by the LambdaDriver management module either locally by RS-232 CLI access or remotely by Telnet, SNMP or GUI management using the MRV MegaVision Pro management platform.



### Environmental

<b>Operating Temperature</b>	- 5°C to 45°C (23°F to 113°F)	
<b>Storage Temperature</b>	-10°C to 70°C (14°F to 158°F)	
<b>Relative Humidity</b>	85% maximum, non-condensing	
<b>Dimensions (W x H x D)</b>	26.93 x 130.7 x 227 mm (1.06 x 5.145 x 8.956 In)	
<b>Weight</b>	0.450 kg (0.99 lb)	
<b>Connector</b>	SFP sockets all ports	
<b>Power Consumption</b>	Module: 5.3W	SFP: 1W

### Technical Specifications

<b>Data Rate</b>	Access port: 1GE Trunk port: 2.5Gbps
<b>Optical parameters</b>	per used SFP

### Order Info

<b>Subrate TDM Mux</b>	
EM2009-GM2	2GE ports TDM Multiplexer channel card with SFP receptacles

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