

Datasheet

**LambdaDriver®- 8x1GE Muxponder Module (TM-GM8D)**



TM-GM8D

**Features**

- 10 Gbps trunk port rate
- Link Integrity Notification (LIN) support
- Remotely activated Local or Remote Loopback
- SFP Digital Diagnostics monitoring
- 50GHz spacing ITU-grid(G.694.1) DWDM Trunk
- Hot swappable
- 2 slots wide – can be used on all LD chassis

**Applications**

- Point-to-Point interconnection of up to 8 LANs
- 8 Independent 1GE services over one DWDM wavelength

**Overview**

The LambdaDriver TM-GM8D Muxponders use advanced TDM technology to transport 8 separate Gigabit Ethernet data streams into a 10 Gbps DWDM trunk port and out over a single pair of fibers.

This solution provides significant cost reduction and excellent fiber utilization when compared to discrete optical multiplexing.

The TM-GM8D incorporates 8 SFP based access interfaces that can accommodate various types of SFPs e.g. Multimode Singlemode and MRV SFP-GA-R/SFP-GC-R copper SFPs. The trunk port is a 10Gbps DWDM tunable laser interface.

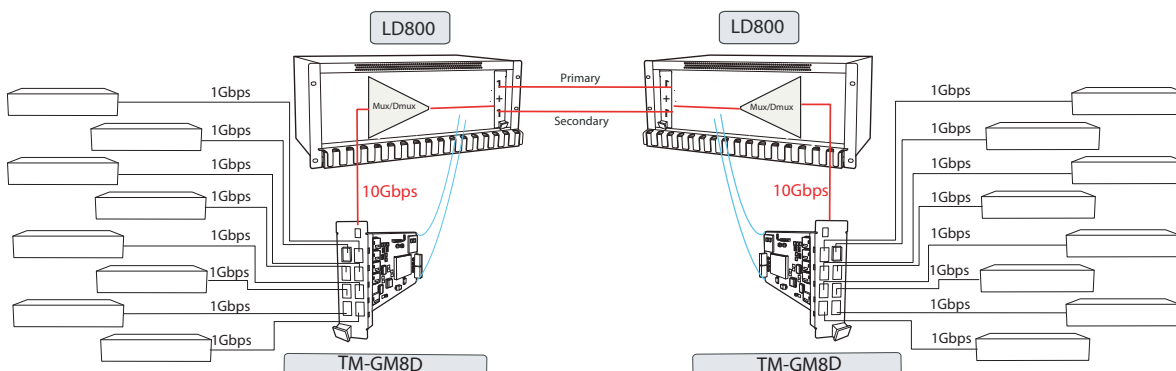
\* For each 1GE access port the following statistics are available:

- In/Out Bit Rate
- In/Out Packet counter
- In /Out Bytes counter
- Code Violation counter
- CRC Errors counter

Link Integrity Notification (LIN) functionality and FEF (Far End Fault) is supported by the TM-GM8D module when F/O SFPs are used The LIN must be disabled when using coppers SFPs . These modes of operation are user selectable.

The modules are manageable with the LambdaDriver management module either locally by RS 232 CLI access or remotely by TELNET, SNMP e.g., using MRV MegaVision Pro NMS.

\* Starting with H/W rev.05 of modules





**Enviromental**

<b>Operating Temperature</b>	- 5 to 45°C (23°F to 113°F)		
<b>Storage Temperature</b>	-10 to 70°C (14°F to 158°F)		
<b>Relative Humidity</b>	85% maximum, non-condensing		
<b>Dimensions (W x H x D)</b>	54.18 x 130.7 x 227 mm <sup>3</sup> ( 2.13 x 5.145 x 8.956 in <sup>3</sup> )		
<b>Weight</b>	0.70 kg (1.54 lb)		
<b>Connector</b>	Access ports - SFP, DWDM port - MiniSC (MU)		
<b>Power consumption</b>	Module	SFP	XFP
	GM8D8T	11.5W	1W 3.0W

**Technical Specifications**

<b>WDM TX power (dBm)</b>	4 - 7
<b>Maximum receiver sensitivity (dBm)</b>	-24
<b>Overload (dBm)</b>	-8
<b>DWDM wavelengths range</b>	Any on ITU-T G694.1 50 GHz grid
<b>Chromatic Dispersion Tolerance</b>	
<b>TM-GM8D8T</b>	1600 ps/nm
<b>Transmission Dispersion Penalty (dB)</b>	2

**Order Info**

<b>Product</b>	<b>Description</b>
<b>TM-GM8D8T</b>	8 x GE, SFP access, TDM module with DWDM 80km trunk with tunable wavelength

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