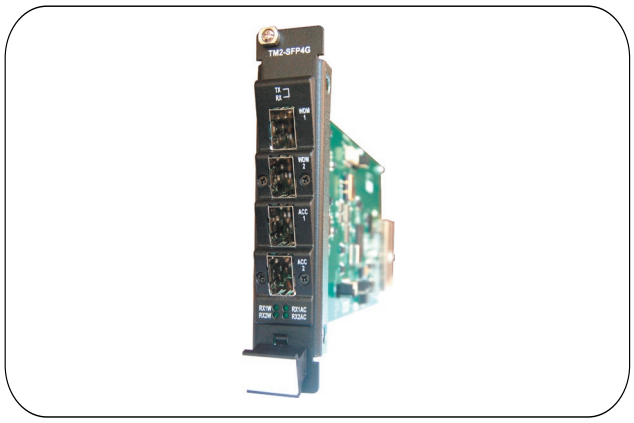
Datasheet

LambdaDriver® - Multi-rate Module (TM2-SFP4G)



TM2-SFP4G

Features

- High port density – 2 transponders per single LambdaDriver® slot
- Use of SFP transceivers on all ports
- 8 Mbps to 4 Gbps data rates
- 3R support
- LIN (Link Integrity Notification) mechanism
- Remote and local loop-back
- SFP digital diagnostics monitoring
- Hot swappable

Applications

- Up to 4 Gbps signal regeneration and optical wavelength conversion
- Smooth upgrading to 4Gbps Fibre Channel system support
- GE and SDH optical network

Overview

The TM2-SFP4G is a single slot module incorporating two independent transponders that convert the "gray" wavelength of a terminal equipment interface into ITU-T grid CWDM or DWDM wavelength enabling its transport via the LambdaDriver® Optical Transport System.

The TM2-SFP4G supports any data rate between 8 Mbps to 4 Gbps. Each transponder has a separate data rate selection function and provides 3R data conditioning. Data rate selection can be done by Software via the LambdaDriver management card (managed mode) or by DIP SW setting when in non-managed mode.

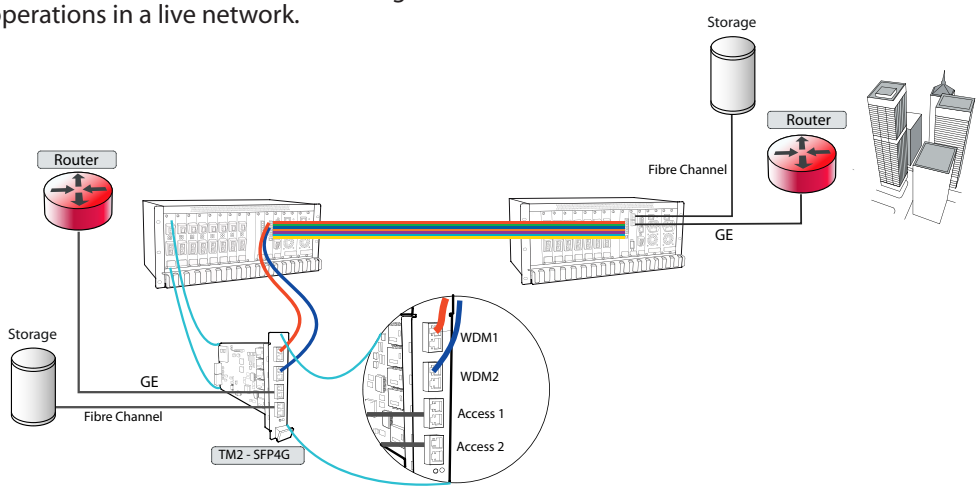
Automatic Laser Shutdown (ALS) feature automatically reduces the optical power of the transmitters to an eye safe level in case of a broken link. The ALS feature is implemented on both ports of the transponder (DWDM trunk and Terminal equipment access port).

Remote and Local Loop-back functionality is supported and provides an essential tool for troubleshooting and maintenance operations in a live network.

The Link Integrity Notification (LIN) function allows the terminal equipment to detect a link failure in the path between the two end-nodes, regardless of the location of the failure. The link failure detected at one end is propagated throughout the network by disabling the transmission towards the terminal equipment connected at the opposite end of the connection.

The TM2-SFP4G transponders also support the Y-Cable based fast switchover protection protocol. In this protection mode two adjacent transponders in a LambdaDriver® chassis run a protocol that maintains "operational" and "standby" transponders for a single port of an access device.

The modules can be managed either through the LambdaDriver® management module by local craft terminal (CLI) or remotely by SNMP with MRV's web-based NMS MegaVision® or any other SNMP management platform.



Environmental

Operating Temperature	- 5 to 45 °C
Storage Temperature	-10 to 70 °C
Relative Humidity	85% maximum, non-condensing
Dimensions (W x H x D)	W: 26.93 mm (1.06 in); H: 130.7 mm (5.145 in); D: 227 mm (8.956 in)
Weight	0.54kg (0.93 lb)
Connector	SFP sockets all ports

Technical Specifications

Power consumption	6 Watt
Data Rate	8Mbps - 4Gbps

Order Info

TM2-SFP4G	Dual transponder with SFP ports protocol transparent at any rate up to 4Gbps

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