

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



TM2-SFP4G

Features

- High port density – 2 transponders per slot
- Use of SFP transceivers on all ports
- Up to 4 Gbps data rates
- 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 various data rates of up to 4 Gbps. Each transponder has a separate data rate selection function. Data rate selection can be done by Software via the LambdaDriver management card (managed mode) or by DIP switch setting when in non-managed mode. Each transponder supports 3R data conditioning for 100Mbps and higher rates or 2R transparent operation for all rates.

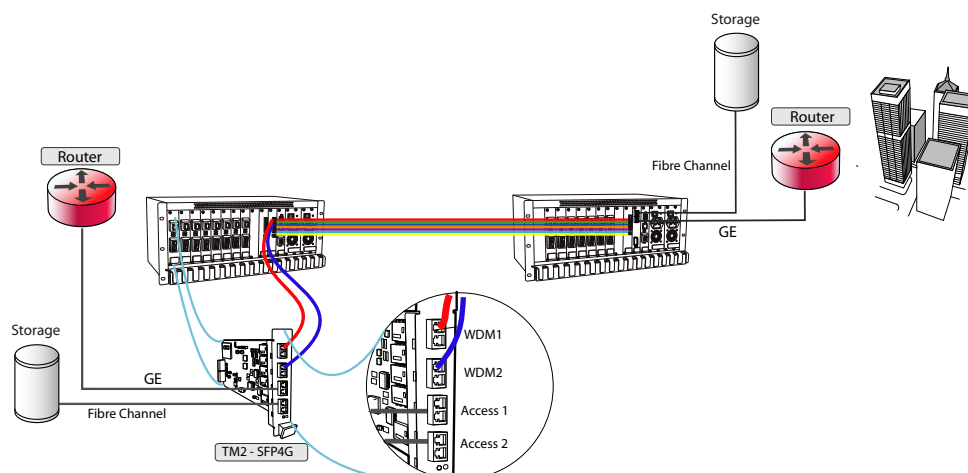
The automatic Laser Shutdown (ALS) feature automatically reduces the optical power of the transmitters to an eye safe level in case of a broken link. The ALS feature is implemented on both ports of the transponder (DWDM trunk and Terminal equipment access port).

It supports remote and Local loop-back functionality (except for OC48 and bypass modes) 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 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 port of an access device.

The modules are manageable with 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

Operating Temperature	- 5 to 45°C (23°F to 113°F)
Storage Temperature	-10 to 70°C (14°F to 158°F)
Relative Humidity	85% maximum, non-condensing
Dimensions (W x H x D)	26.93 x 130.7 x 227 mm (1.06 x 5.145 x 8.956 in)
Weight	0.5kg (1.1 lb)
Connector	SFP sockets all ports
Power consumption	Module: 5.3W SFP: 1W

Technical Specifications

Data rates	8Mbps - 2.5Gbps in bypass mode (2R) STM1, STM4, STM16, FE, GE, ESCON, FC1, FC2, FC4 - 3R user selectable
Optical parameters	As per used SFP

Order Info**TM2-SFP4G** 8 Mbps to 4 Gbps dual transponder with SFP ports

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