Datasheet

LambdaDriver® 8Gbps FC Dual Transponder (TM2-SFPPXFPFC8)

TM2-SFPPXFPFC8

Features

- 2, 4 or 8Gbps Fibre Channel data rate
- 3R support
- LIN (Link Integrity Notification) mechanism
- Remote Loop-back
- Power monitoring
- Y-Cable backup protection
- Hot swappable

Applications

- 8Gbps FC signal regeneration and optical wavelength conversion

Overview

The TM2-SFPPXFPFC8 is a single slot module incorporating two independent up to 8Gbps Fibre Channel transponders that convert the "gray" wavelength of a terminal equipment interface into ITU-T grid DWDM wavelength enabling its transport via the LambdaDriver® Optical Transport system (DWDM multiplexer, OADM etc).

The access ports use SFP+ transceivers for Multimode or Singlemode fiber interface while the WDM trunk is a special XFP device supporting 2, 4 or 8Gbps FC data rates.

The module supports 2, 4 or 8 Gbps automatic rate detection and synchronization to the FC rate of the access ports.
Remote Loop-back functionality is supported and provides an essential tool for troubleshooting and maintenance operations in a live network.

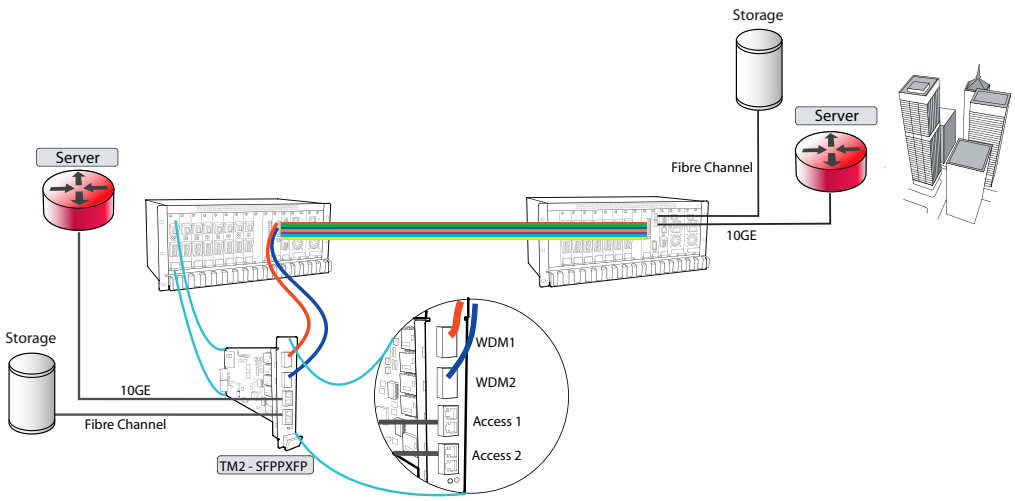
The Link Integrity Notification (LIN) function allows the terminal equipment to detect a link failure in the path between the two end nodes regardless of the location of the failure.

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.

Power monitoring of the Trunk (DWDM) and the access ports via the to Digital Diagnostics provided by the SFP+ and XFP transceivers.

The TM2-SFPPXFPFC8 transponders 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 single 8Gbps port of an access device.

The modules are manageable by the LambdaDriver management module either locally by RS232 CLI access or remotely by Telnet, SNMP or GUI management via the MRV MegaVision Pro management platform.



Enviromental Specifications

Operating Temperature	-5 ºC - 45 ºC
Storage Temperature	-10 ºC - 70 ºC
Relative Humidity	85% maximum, non-condensing
Dimensions (W x H x D)	26.93 mm (1.06 In); 130.7 (5.145 In); 227.5mm (8.956 In)
Weight	0.53 Kg (1.16 lb)
Connectors	SFP socket access ports, XFP sockets- trunk ports
Power consumption (Fully loaded)	9.61 watt

Technical Specifications

Data Rate	2.125, 4.25, and 8.5 Gbps

XFP-DWLR08F8-xx Technical Specifications

Transmitter	Output power range: -3 to +3 dBm
Receiver	Sensitivity min: -23 dBm at OSNR>30dB Dispersion: -500 to 1400 ps/nm Dispersion penalty: 3dB
Power consumption	3.5 W

Order Info

Product	Description
TM2-SFPPXFPFC8	8 Gbps FC Dual Transponder
XFP-DWLR08F8-xx	2/4/8 Gbps, SM DWDM (XX + ITU C-Band Channels 17-61 for 100 GHz), 80 km, with Digital Diagnostics
SFP-8GD-SX	SFP, 2.125 / 4.25 / 8.5 Gbps, MM, 850nm, 300m with Digital Diagnostics
SFP-8GD-LX	SFP, 2.125 / 4.25 / 8.5 Gbps, SM, 1310nm, 10km with Digital Diagnostics