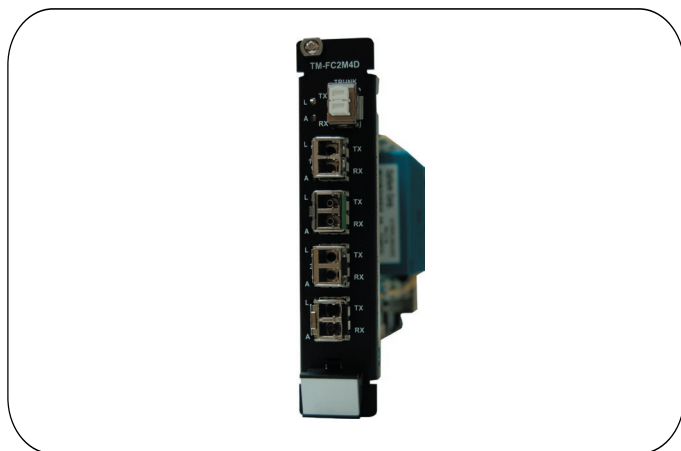


Datasheet

LambdaDriver® - 4 x 2Gbps Fibre Channel Muxponder Module (TM-FC2M4D)



TM-FC2M4D

Features

- Remotely activating of Local or Remote Loopback per port
- SFP Digital Diagnostics monitoring
- Optical power monitoring of the DWDM trunk port
- 10 Gbps trunk port rate
- Tunable wavelength option of trunk DWDM laser
- Hot swappable
- 1 slot wide – can be used in all LD chassis

Applications

- Data Storage Extension
- Disaster Recovery Plant

Overview

The LambdaDriver TM-FC2M4D Muxponder uses advanced TDM technology to transport 4 separate 2 Gbps Fibre Channel data streams into a 10 Gbps DWDM trunk port over a single pair of fibers.

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

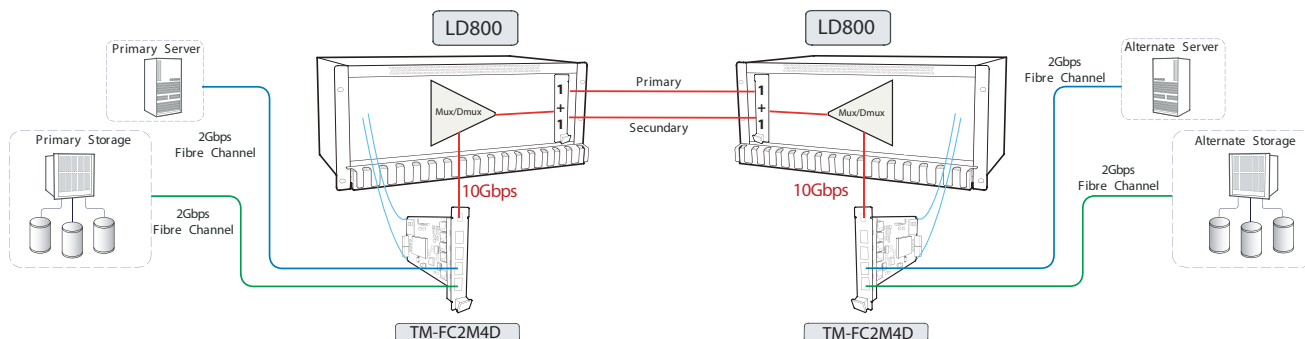
The TM-FC2M4D incorporates 4 2Gbps Fibre Channel SFP based access interfaces that can accommodate various types of SFPs e.g. Multimode or Singlemode. The trunk port is a 10Gbps DWDM interface that can be ordered either as predefined wavelength or with tunable laser.

Local and remote Loopback per port can be remotely activated via the management module to facilitate troubleshooting and network maintenance.

Typical applications include :

- Point-to-point ("gray" wavelength trunk) interconnection of up to 4 independent STM16 services
- DWDM integrated - Using only one DWDM channel to pass 4 independent STM16 services between two sites over one or more WDM LD nodes.

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

<b>Operating Temperature</b>	-5° to 45°C
<b>Storage Temperature</b>	-10° to 70°C
<b>Relative Humidity</b>	85% maximum, non-condensing
<b>Dimensions (W x H x D)</b>	27.4 x 130.7 x 227 mm ( 1.08 x 5.145 x 8.956 in)
<b>Weight</b>	0.7 kg (1.5 lb)
<b>Connector</b>	Access ports - SFP,DWDM port - MiniSC (MU)

### Technical Specifications

	Fixed wavelength	Tunable wavelength
<b>WDM TX power (dBm)</b>	0 - 1	4 - 7
<b>Maximum receiver sensitivity (dBm)</b>	-23	-24
<b>Overload (dBm)</b>	-6	-8
<b>Power consumption (excluding SFPs)</b>	8.7	11.4
<b>DWDM wavelengths range</b>	Any on ITU-T G694.1 50 Ghz grid	
<b>Chromatic Dispersion tolerance</b>		
<b>TM-FC2M4D4/xx</b>	800 ps/nm	
<b>TM-FC2M4D8/xx</b>	1600 ps/nm	
<b>TM-FC2M4D8T</b>	1600 ps/nm	
<b>TM-FC2M4D16T</b>	3000 ps/nm	
<b>Dispersion penalty at limit (db)</b>	2	

### Order Info

Product	Description
<b>TM-FC2M4D4/xx</b>	4 x 2Gbps FC, SFP access, TDM module with DWDM 40km ch#xx trunk
<b>TM-FC2M4D8/xx</b>	4 x 2Gbps FC, SFP access, TDM module with DWDM 80km ch#xx trunk
<b>TM-FC2M4D8T</b>	4 x 2Gbps FC, SFP access, TDM module with DWDM 80km trunk with tunable wavelength
<b>TM-FC2M4D16T</b>	4 x 2Gbps FC, SFP access, TDM module with DWDM 160km trunk with tunable wavelength

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