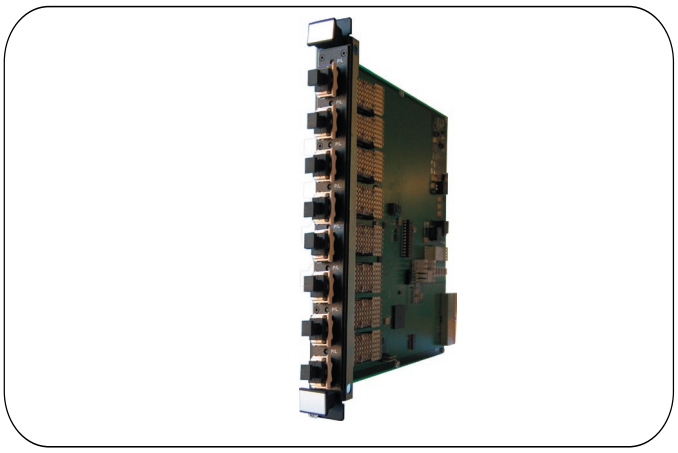
Datasheet

LambdaDriver® –10Gbps 8 ports XFP - EXC Module (EM1600-8CC10G)



Features

- Front panel user interfaces with port status indicators
- XFPs provide SFF-8472 digital diagnostics support
- LIN support
- XFP ports settable to full-duplex 10Gbps Ethernet or OC-192 per module
- Flexible port cross-connectivity
- Installable in LD1600, 1600L or LD400L chassis 1-Long slot
- Hot-swappable

Applications

- The LD1600-8CC10G module can be used as a 10GE or OC192 quad transponder or as Electrical ROADM for 2 x 10 Gbps DWDM channels.

Overview

The EM1600-8CC10G XFP Dual Transponder module is a single slot module that incorporates 8 independent XFP based 10 Gbps ports with intelligent port interconnection functionality.
The flexible configuration options permit pairing any-to-any port to provide several data transfer modes:

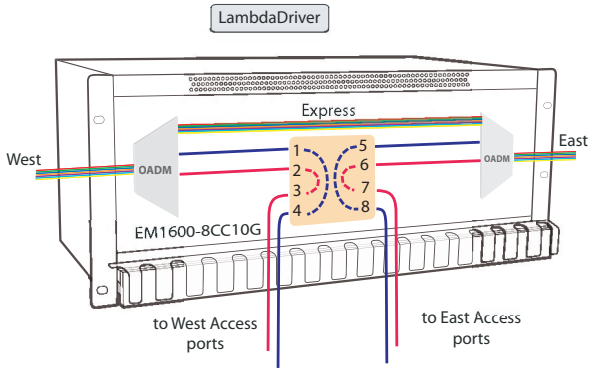
- As 2 wavelengths Electrical ROADM
- Between flexibly selectable pairs of ports, i.e., in quad transponder mode
- From one port to a third port in case the second port fails, i.e. in port protection mode

The ports can be configured to operate under the 10 Gbps Ethernet protocol or at the OC-192 data rate in full-duplex mode with Link Integrity Notification (LIN) and Loopback capability.

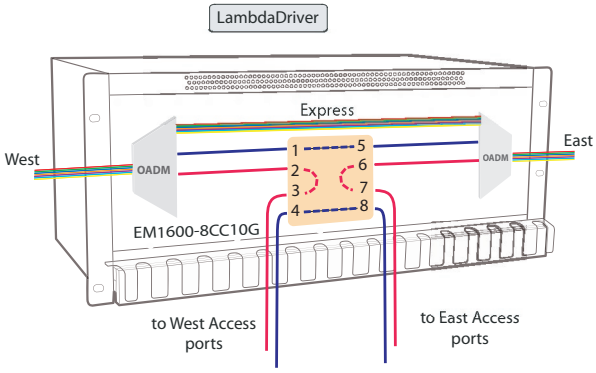
LIN notifies terminal equipment of link failure by cutting off laser power on the access side whenever no power is received from the WDM side, and vice versa.
Loopback is used to test the integrity of the data path of an individual port and its internal circuitry by returning the received data to the transmitting device at the tested interface.

As part of the LambdaDriver Optical Transport System the LD1600-8CC10G can be managed via the management module installed in the LambdaDriver either locally by Serial/RS-232 connection or remotely by TELNET or SNMP.
Per-port front panel LEDs indicate XFP and link presence or absence.

2 wave eROADM implementation



Two services dropped to site in port protection mode



Re-routing of service 1 to a different location (pass-through) by remote configuration

Enviromental	
Operating Temperature	-5 ^{0}C to +45 ^{0}C
Storage Temperature	-10 ^{0}C to +70 ^{0}C
Relative Humidity	85% max, non-condensing
Dimensions (W x H x D)	26.93 x 263.4 x 227 mm (1.06 x 10.37 x 8.956 in)
Weight	1.25 kg (2.75 lb)

Technical Specifications

Data Rate	10GE or OC192 (STM-64)
TX Port (Access Trasmit Port)	Connection to access equipment receive port
RX Port (Access Receive Port)	Connection to access equipment transmit port
Optical parameters	Per the XFP
Connectors:	Per the XFP
LEDs	
P/L n:	Detection of XFP and Link presence or absence at port n
Power Consumption	
Card without XFPs	3.3W
Each XFP	6.8W

Order Info

Product	Description
EM1600-8CC10G	8x10Gbps Ethernet or OC-192 full-duplex, XFP ports.