

Datasheet

**LambdaDriver®-10 Gbps XFP - Dual Transponder Module (EM1600-4CC10G)**



**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 EM1600-4CC10G module can be used as a 10GE or OC192 dual transponder with integrated port redundancy as an option and relay-to-LAN-Analyzer capability.

**Overview**

The EM1600-4CC10G XFP Dual Transponder module is a single slot module that incorporates 4 independent XFP based 10 Gbps ports with intelligent port interconnection functionality.

The flexible configuration options permit pairing any-to-any port to form a dual 10 Gbps transponder in one module.

An additional option is to use the module in a port protection mode, in which case the traffic of one port is normally forwarded to a second port defined as primary port and in case of failure of the primary destination port the traffic will be relayed to a second port defined as secondary.

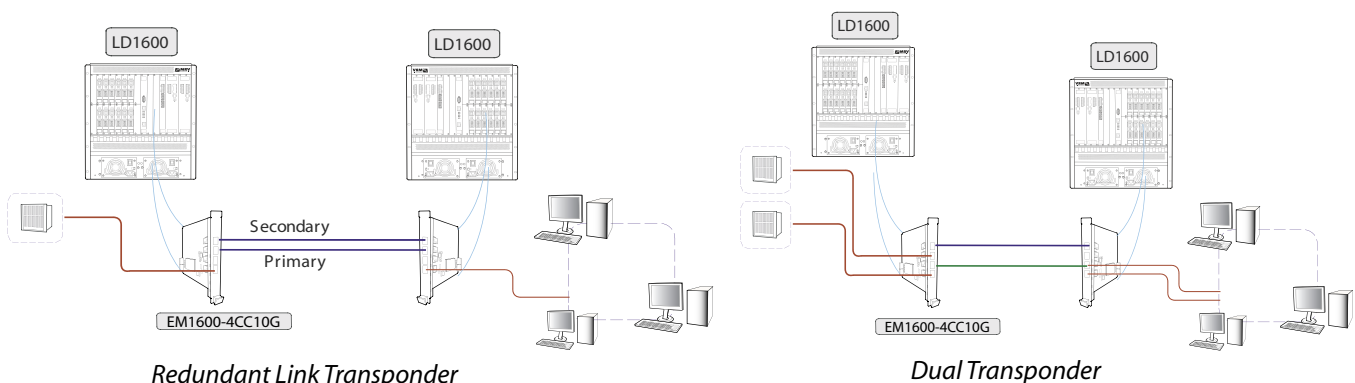
The ports can be configured to operate in the 10 Gbps Ethernet protocol or at the OC-192 data rate in full-duplex

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 back to the transmitting device at the tested interface.

As part of the LambdaDriver Optical Transport System the EM1600-4CC10G can be managed via the management module installed in the LambdaDriver either locally via a Serial/RS-232 connection or remotely via TELNET or SNMP. Per-port front panel LEDs indicate XFP and link presence or absence.



### Enviromental

<b>Operating Temperature</b>	-5 °C to +45 °C
<b>Storage Temperature</b>	-10 °C to +70 °C
<b>Relative Humidity</b>	85% max, non-condensing
<b>Dimensions (W x H x D)</b>	26.93 x 263.4 x 227mm ( 1.06 x 10.37 x 8.956 in)
<b>Weight</b>	1.04 kg (2.29 lb)

### Technical Specifications

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

### Order Info

Product	Description
<b>EM1600-4CC10G</b>	4x10Gbps Ethernet or OC-192 full-duplex, XFP ports.

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