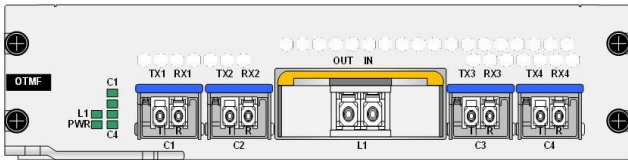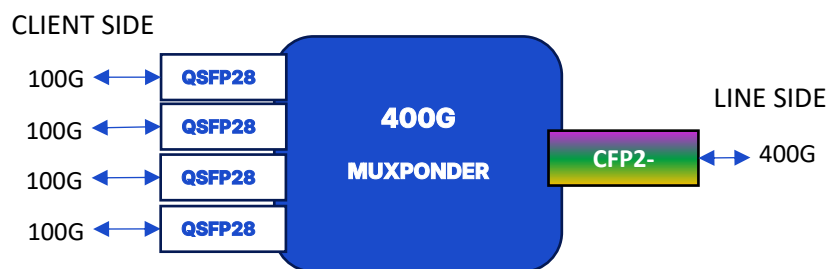# **X86-OTMF** – 400G Muxponder (CFP2-DCO)

DESCRIPTION

The XenOpt 400G Muxponder is a high-capacity optical networking solution designed to aggregate four 100G client signals into a single 400G DWDM line-side signal. It features a pluggable CFP2-DCO module on the line side, with adjustable wavelengths in the C-band (191.35THz – 196.1THz) and support for ultra-long-distance transmission using coherent detection technology. The client side includes four QSFP28 sockets compatible with 100GbE, 100GbE RS-FEC, and OTU4.

This muxponder offers configurable data rates of 100G, 200G, and 400G, ensuring flexibility for diverse network requirements. Real-time performance monitoring, fault detection, and Automatic Laser Shutdown (ALS) enhance operational reliability and safety. Compact and energy-efficient, it fits into the XenOpt X8600 series chassis, occupying two slots and consuming up to 60W, including optical modules. Ideal for high-speed datacenter interconnects, metro, and long-haul WDM networks, it delivers scalability and robust performance for modern networking demands.

FEATURES

- Supports 4x100G ⟷ 400G multiplexing/demultiplexing.
- Utilizes pluggable CFP2-DCO modules with coherent detection technology.
- Adjustable wavelength covering from 191.35THz to 196.1THz.
- Configurable rates of 100G, 200G, and 400G.
- Achieves ultra-long-distance transmission using coherent detection technology.
- Real-time performance monitoring of optical parameters and Ethernet layers.
- Automatic Laser Shutdown (ALS) and fault alarm delay management.
- Power consumption less than 60 W

APLICATIONS

- High-capacity optical transport networks.
- Long-haul and metro WDM systems.
- High-speed data center interconnects.
- Flexible deployment for enterprise and carrier networks.

Module block diagram

PRODUCT SPECIFICATION

Parameter	Note
Model	OTMF
Line Side	1 slot for CFP2-DCO optical port: using 400G CFP2-DCO DCO module
	• Adjustable wavelength from 191.35THz to 196.1THz • Adjustable optical transmit power from -10dBm to -20dBm • Supported speed 100GbE/200GbE/400GbE • Supported single-fibre bidirectional transmission
Client Side	4 slots for QSFP28 pluggable modules
Supported Service Type	100GbE, 100GbE with RS-FEC, OTU4
Loopback	Line-side and client-side loopbacks are supported
LLDP	100GbE, 100GbE with RS-FEC
Alarm Delayed Insertion	Local Fault alarm, delayed insertion alarm, and delay time setting
Automatic Lasser Shutdown	Automatic laser turn-off and turn-on is supported based on optical signal inputs levels
Performance Monitoring	OSNR, pre-correction BER, non-correctable BER blocks, dispersion compensation, differential group delay, temperature, current, voltage, optical power, OTU layer, ethernet layer and other performance monitoring
Power Consumption	Up to 60W, including optical transceivers
Slots Occupied	2 slots, compatible with the full range of XenOpt X8600 chassis

ORDERING INFRMATION

Part number	Product Description
X86-OTMF	XenOpt X8600 OTMF 400G Muxponder (CFP2-DCO)

Notes:

For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

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