

X86-OTMD – 400G Muxponder (QSFP-DD)

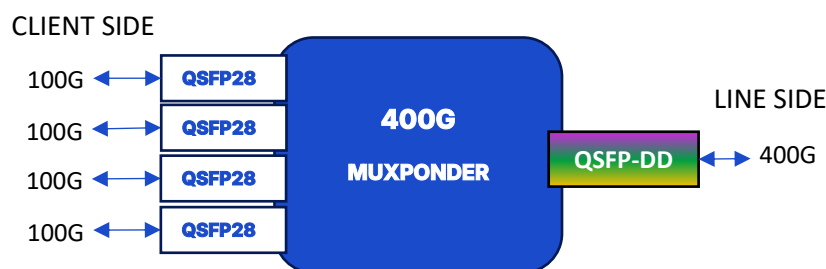


DESCRIPTION

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 QSFP-DD 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 and 100GbE RS-FEC.

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.

Module block diagram



FEATURES

- Supports 4x100G ↔ 400G multiplexing/demultiplexing.
- Utilizes pluggable QSFP-DD 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

APPLICATIONS

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

PRODUCT SPECIFICATION

Parameter	Note
Model	OTMD
Line Side	1 slot for QSFP-DD optical port: using 400G QSFP-DD DCO module <ul style="list-style-type: none"> Adjustable wavelength from 191.35THz to 196.1THz Adjustable optical transmit power from -10dBm to -20dBm Supported speed 100GbE/200GbE/400GbE
Client Side	4 slots for QSFP28 pluggable modules
Supported Service Type	100GbE, 100GbE with RS-FEC
Loopback	Line-side and client-side loopbacks are supported
LLDP	100GbE, 100GbE with RS-FEC
ALS	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, temperature, current, voltage, optical power, 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 INFORMATION

Part number	Product Description
X86-OTMD	XenOpt X8600 OTMD 400G Muxponder (QSFP-DD)

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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