

PL-4000T 1.6T Muxponder / Transponder

Transport of 4 x 200G/300G/400G wavelengths, for high capacity metro and long haul applications

Features Overview

- Pay-as-you-grow architecture based on standard pluggable coherent optical modules
- Up to 4 slices of 200G/300G/400G
- Supported services: 100GbE, 400GbE, OTU4
- Supported line FEC:
 - CFEC (OIF-ZR)
 - oFEC (Open ROADM and Open ZR+)
- Range of modulation modes: 16QAM, 8QAM, QPSK
- Client options per slice:
 - 400GbE QSFPDD
 - 4 x 100GbE QSFP28
 - 4 x OTU4 QSFP28
- Supported 400G QSFPDD client optics: LR8/SR8/FR4/DR4/DR+/LR4
- Uplink options per slice:
 - 400G CFP2-DCO
 - 400G QSFPDD-DCO
- Layer-1 GCM-AES-256 encryption
- Elliptic Curve Diffie-Hellman key exchange
- Comprehensive line and service performance monitoring
- Integrated EDFA, mux/demux and up to 4 optical switches (optional)
- Facility protection using integrated optical switches (optional)
- Remote management with in-band GCC, or out-of-band OSC
- Easy maintenance with field-replacable and hot-swappable parts:
 - Dual hot pluggable power supply units (AC/DC)
 - Fan unit

400G Muxponder/Transponder

The PL-4000T is a modular and cost-effective high capacity solution for rolling out 400GbE and 100GbE services, or increasing existing network capacity. The device has four 400G pluggable uplink optical modules, delivering up to 1.6T in a 1U chassis. The PL-4000T integrates mux/demux, EDFA and OSW and delivers the entire optical layer. This flexible solution enables pay-as-you-grow architecture.

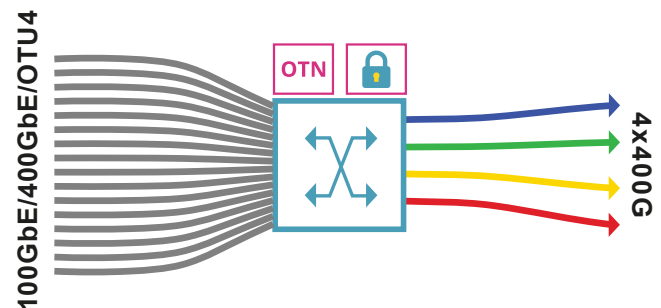


Main Benefits

- Cost-effective high capacity transport of 200G/300G/400G over single wavelength
- Up to 4x400G transponders/muxponders in 1U
- Embedded Layer-1 GCM-AES-256 encryption
- Integrated EDFA, mux/demux and optical switch in 1U
- Modular and cost-effective for future growth and maintenance

Flexible Pay-as-you-grow Architecture, with Redundancy

The solution provides full demarcation point between the service and the DWDM network, and is interoperable with any third party switch or router. This provides full visibility and performance monitoring of both the optical transport layer (OTN) and 100GbE/400GbE/OTU4 service interfaces.



PL-4000T Transponder/Muxponder Diagram

Recommended applications:

- Metro and long haul network applications
- High capacity DCI for enterprise, campus and cloud computing networks
- 400G wavelengths to bolster existing OTN/DWDM infrastructure
- Last mile access/aggregation CPE for 100/400GbE managed services
- Secured and encrypted communication for 100/400GbE services