PL-4000M 600G ADM/Muxponder/Transponder

600G multi-protocol multi-rate optical transport solution for metro and long haul networks

Features Overview

- Flexible high capacity architecture based on 400G pluggable digital coherent optical modules
- Supported clients: 10/25/100Gb Ethernet, 16G Fibre Channel, OTU2/2e/4
- Flexible mix of client services mapped into 100/200/300/400G DWDM wavelengths
- Supports oFEC on the line side
- Uplinks: Dual 400G CFP2-DCO Open ROADM pluggable coherent modules
- Range of modulation modes: 16QAM, 8QAM, QPSK
- Clients:
  - Up to 6 x QSFP28 for 100GbE or OTU4
  - 24 x SFP+ / SFP28 for lower rate services
- Layer-1 GCM-AES-256 encryption
- Elliptic Curve Diffie-Hellman key exchange
- Comprehensive line and service performance monitoring
- Integrated EDFAs pre-amp/booster (optional)
- Facility protection using an integrated optical switch (optional)
- OTN SNCP 1+1 service protection for ring applications
- Remote management using in-band GCC or out-of-band OSC
- Easy maintenance with field-replaceable parts:
  - Dual hot pluggable power supply units (AC/DC)
  - Fan unit

100/200/300/400G Long Haul & Metro Applications

The PL-4000M is a cost-effective solution for rolling out multi-rate 10/25/100GbE, 16G FC, OTU2/2e/4 services, or increasing existing network capacity. The device delivers 600G in a 1U chassis using dual 400G CFP2-DCO Open ROADM standard-based pluggable coherent modules for metro and long haul applications.
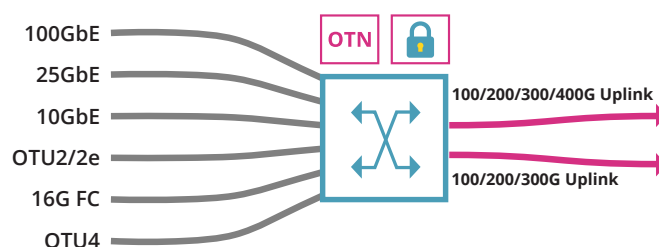
Main Benefits

- **Cost-effective high capacity transport of 400G over single wavelength**
- **Supports flexible mix of client interface protocols**
- **Embedded Layer-1 GCM-AES-256 encryption**
- **Integrated EDFAs and optical switch in 1U chassis**
- **User-configurable operation mode**
- **Supports 100/200/300G ring application**

Flexible Architecture, Facility Protection

The PL-4000M provides full demarcation point between the service and the OTN/DWDM network, and is interoperable with any third party switch or router. This provides full visibility and performance monitoring of both line optical transport layer (OTN) and 10/25/100GbE, 16G FC, and OTU2/2e/4 service interfaces.

PL-4000M Diagram

Recommended applications:

- **300G/400G metro / long haul applications**
- **100G/200G long hall applications**
- **High capacity DCI for enterprise, campus and cloud computing networks**
- **400G links to bolster existing OTN/DWDM infrastructure**
- **Last mile access/aggregation CPE for 100GbE managed services**
- **Secured and encrypted communication for 10/25/100GbE, and OTU2/2e/4 services**