

PL-1000TE 1G-16G Transponder

8 multi-rate multi-protocol transponders, supporting Layer-1 encryption, for high capacity DCI

Features Overview

- Multi-rate and multi-protocol mix of 8 transponders, configurable from 622M up to 40G
- Service types: Data - GbE/10G and 40G LAN, Storage - 1G/2G/4G/8G/10G/16G FC, SONET/SDH - STM-4/OC-12, STM-16/OC-48, STM-64/OC-192, Video - HD-SDI/3G-SDI (PAL and NTSC), Wireless - CPRI 1-7 (614M to 9.8G rates)
- Low latency connectivity, ideal for data center interconnect applications
- Encryption algorithm: GCM- AES-256 Layer-1 data encryption. Periodical Diffie Hellman key exchange. Complies with NIST FIPS-140-2 and CNSA Top Secret Suite B 2015 requirements
- Supported Layer-1 Encryption services:
Data - GbE/10Gb/40Gb Ethernet
Storage - 4G/8G/10G/16G FC
- Remote management and topology discovery for the optical network
- Pluggable SFP/SFP+ interfaces for both service and WDM channels
- Supports full C-band tunable DWDM on the line side (SFP+)
- Optional integrated EDFAs, mux/demux, DCM and optical switch
- Supports 1+1 facility protection
- Bi-directional performance monitoring
- Dual AC or DC pluggable power supply and pluggable fan unit
- Supports single and dual fiber networks

Low Latency 1G-16G WDM Transponder

The PL-1000TE/PL-1000TE Crypto is a CWDM/DWDM solution for connecting two data centers or back up sites. The device is an advanced, all-in-one optical transport solution, supporting up to 8 transponders with a flexible mix of industry-standard-protocols. The product integrates a rich and cost-effective feature set in a 1U chassis with low power consumption.

The PL-1000TE Crypto supports innovative Layer-1 optical encryption capability for 1G/10G/40G Ethernet LAN and 4G/8G/16G FC storage services.

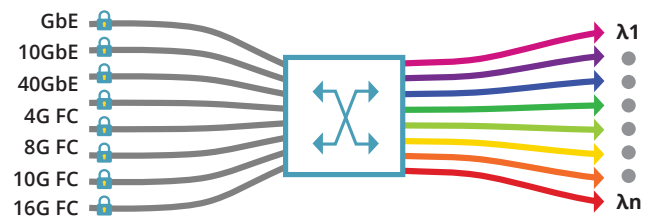


Main Benefits

- Flexible mix of services provides transparent migration capability from up to 10G to 10G services with no downtime
- Layer-1 encryption prevents disclosure of information to unauthorized parties with 100% throughput
- Maximum flexibility and scalability

Standards-based Layer-1 Encryption

The PL-1000TE/PL-1000TE Crypto allows easy upgrade or expansion of the required services by simply adding pluggable optic modules (SFP/SFP+) into the available slots or by implementing PacketLight's multi-chassis stackable solution. This architecture provides true scalability at a minimum cost.



PL-1000TE Diagram - Multi-rate Transponder Layer-1 Encryption

Recommended applications:

- High capacity, low latency, secure data center interconnect (DCI)
- Efficient connectivity for campus, ISP and enterprise networks
- Upgrade of existing WDM networks to support 10/40Gb Ethernet and 16G FC services
- Trading applications and synchronous data center replication requiring low latency
- Distance extension for 40G data networks up to 120km