

# TRIDENT7™ GPON PLATFORM INTERFACE MODULE - T7-PIM-8984

Each ITU G.984 compliant GPON Platform Interface Module (PIMs) offers industry leading bandwidth of up to 2488 Mbps downstream and advanced QoS and dynamic bandwidth management. The GPON PIM provides eight (8) GPON interfaces via Small Form-factor Pluggable (SFP) SC/UPC connectors. The PIM also includes two (2) 10 Gigabit Ethernet XFP interfaces. Up to eight (8) GPON (PIMs) may be installed in a single TRIDENT7™ Universal Access Platform (T7) OLT. One GPON PIM can be hosted by the dense T7 OLT and by the compact, hardened T7 Compact OLT (COLT)



## BENEFITS

- High bandwidth – Interface data rates of 2488 Mbps downstream and 1244 Mbps upstream
- Provides dynamic bandwidth assignment, supporting both guaranteed and best effort bandwidth allocation for highest quality services
- Redundant and Hot Swappable Modules

## FEATURES

- Provides eight (8) GPON interfaces via Small Form-factor Pluggable (SFP) SC/UPC connections.
- (2) 10 Gigabit Ethernet XFP interfaces
- Fully Manageable from the TRIDENT7 Unified Element Management System (EMS)
- Provides SFP-based Ports for FTTP connections to ONTs and other customer premise equipment through the Optical Distribution Network (ODN).
- Provides 128-bit encryption, Forward Error Correction, and Layer 2 switching at wire speeds

## APPLICATIONS

- Supports high quality, converged Voice, Video and Data triple-play services
- Designed for network operators to use traditional RF broadcast services to deliver basic and premium channels while simultaneously using IP-based technology for video-on-demand and premium services
- Next-Generation Optical Access Networks for consumers or businesses services

## SPECIFICATIONS

### Subscriber-Side Interfaces

- 8 PIMs per OLT x 8 PONs per PIM = 64 PONs
- 64 PONs with 1 x 64 split = 4,096 PON ONTs per OLT

### Management

- T7 Element Management Suite
- Flow-Through Provisioning
- Strong QoS & SLA Enforcement Tools
- GUI & Cisco-based CLI
- SNMP
- ONT Management Control Interface (OMCI) support for GPON services

### Environmental Operating Temperatures

- -40° C to 60° C

### Humidity

- 10% to 90% relative humidity, non-condensing
- Standard relay rack (19" or 23")

### Safety

- ANSI / UL60950-2000 with UL50
- FCC FDA CFR21, Part 1040
- USDA Rural Development Listed

### NEBS

- NEBS Level 1
- NEBS Level 3 (pending)

### EMI/EMC

- FCC CFR47
- EN 55024: 1998
- EN 55022: 1998

### Reliability

- MTBF redundant configuration availability:
  - >0.99999 at 40°, ground fixed in accordance with Telecordia TR-332

### Service

- Modular design for ease of maintenance and upgrades
- All modules are hot-swappable

### Mounting Options

- Standard relay rack (19" or 23")

For more information  
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