

PL-1000

Simplicity and Innovation in
10G connectivity solutions



The PL-1000 is a carrier class leading 1U Metro DWDM platform, for transport of 10G Data, Voice and Storage Applications, over dark fiber and WDM networks

Features and Benefits

Highly flexible metro DWDM platform for transport of data, storage, and voice applications over dark fiber and C/DWDM networks

Performs bidirectional 3R ensuring error free operation over distance

Supports 10G Eth LAN/WAN, OC-192/STM-64, OTU-2, 10G FC in any mix.

Cost-effective, compact 1U platform with low power consumption ideal for CLE (Customer Located Equipment)

Remote management with dedicated optical supervisory channels

Pluggable XFP interface for both service and WDM channels, allowing maximum flexibility as well as ease of maintenance and operation

Pay-as-you-grow architecture

Supports facility protection

Bidirectional performance monitoring for 10G Eth LAN/WAN, 10G FC and OC-192/STM-64 services wavelengths needed.

Supports Single fiber and Dual fiber operation

PL-1000 is designed primarily to address the growing needs for high data capacity applications such as IPTV, Triple play and NGN which needs to be transported over the same existing or new fiber infrastructures.

The PL-1000's capabilities, dimensions and competitive cost make it the ideal solution for evolving metro Ethernet networks, enterprise networks, campus environments and central office locations.

The PL-1000 supports up to 4 high-speed 10G services.

Each service is configured independently, using PacketLight's user-friendly Web-based management tool.

The PL-1000 is designed to support point-to-point, Linear ADM and ring topologies with Facility protection.

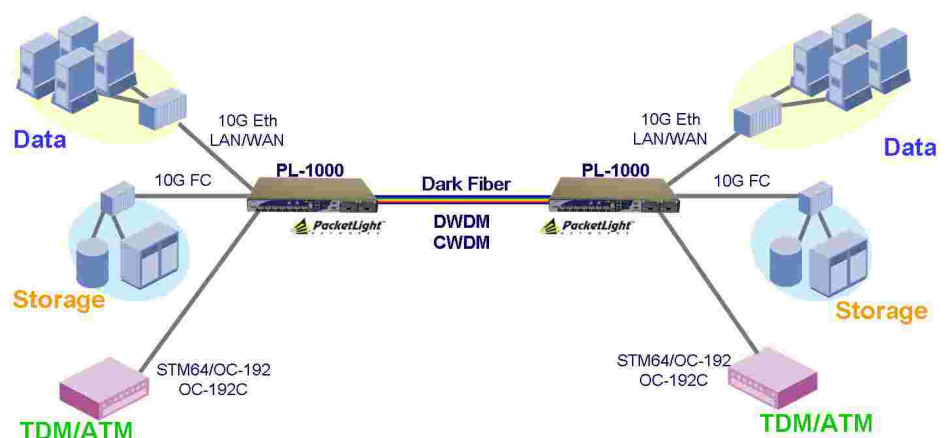
The PL-1000 is a highly integrated device, incorporating Mux/DeMux, EDFA and optical switch for both transponder and regenerator modes, also enabling simple and cost effective upgrade of existing infrastructure to carry 10G services.

The PL-1000 seamlessly integrates with the PL-400 and PL-300 thus enabling mixture of low and high bit services over the same fiber and supporting stackable solution operation of up to 32 DWDM wavelengths.

All optical transceivers, both on the service side and on the WDM-uplink side, are pluggable and fully replaceable allowing pay-as-you-grow budget planning and simplified maintenance.

The PL-1000 is highly suitable for applications such as:

- High throughput Metro Ethernet connectivity
- Interconnection of LAN, TDM and SAN over remote metro sites
- Effective infrastructure for triple play, NGN and DSLAM backhaul
- Enable upgrade of existing CWDM or DWDM networks to support 10G services
- Efficient central office and local exchange connectivity



PL-1000

Simplicity and Innovation in
10G connectivity solutions

Technical Specifications

System

Topology	Point-to-Point, Ring, Linear ADM
Transport Network/Medium	Metro DWDM / dark fiber
Software Upgrade	Traffic hitless – dual image
Protection	Facility

Product Options

Transponder	1310/850 nm to 15xy nm, 3R 4 wavelengths Mux & Demux
Transponder + Booster Amp	1310/850 nm to 15xy nm, 3R, 4 wavelengths Mux Demux, EDFA
In-line Amp	2X EDFA
Regenerator	15xy nm to 15xy nm 3R, 4 wavelengths 2 X Mux & 2 X Demux, 2 X EDFA In-line Amp

DWDM Link

Wavelength	ITU Channels 15 - 60, 100GHz spacing
Optical Supervisory Channel	1490nm, 1510nm
Optical Reach	40, 80, 100, 120Km
Optical Power Output	0dBm (min) to +2dBm (max)
Sensitivity	-24, -26 dBm APD
Optical Monitoring	Tx & Rx power

Service Side

Interface Rates	9.95328Gbps up to 10.709255Gbps
Optical Interface	1310nm / 850nm / 15xy nm (C/DWDM)
Optical Transparent Services With 3R	10G Eth LAN/WAN, OC-192/STM-64, 10G FC, OTU2 in any mix

Approvals

CE, FCC, RoHS 5, ETSI

Amplifier

Applications	In-line, Booster
Output Power	14dBm or 17dBm
Gain	10dB to 20dB
Automatic Gain Control	Keeping the amplifier gain fixed, without dependency on adding or removing services
Automatic Power Control	Keeping the amplifier output power fixed, without dependency on adding or removing services
Eye Safety	Automatic laser power reduction upon fiber cut or disconnection

Network Management

Management Ports	10/100MBase-T, RJ-45, RS-232 DB-9
Protocols	SNMP, FTP, HTTP
Management	Web server Application
OAM	<ul style="list-style-type: none">• Loop Backs• Event logger• Alarms• 10G Eth LAN/WAN, OC-192/STM-64, 10G FC PM
Management Channel	Optical Supervisory Channel (OSC)
Visual Indicators	LED status indicators for client ports, line interfaces, power and shelf

Power Supply

AC/DC	100-240V AC, -48V DC, 65 Watts max
Redundancy	Single or dual feeding, redundant pluggable

Environmental

Operating Temperature	-5° C to +55° C (+23° F to +131° F) Operational
-----------------------	--

Physical Dimensions

Size	1.77" (1 RU) (H) x 17.32" (W) x 8.6" (D) 45 mm (H) x 440 mm (W) x 220 mm (D)
Weight	5.5Kg (max)