



**Optical Networking Solutions
for Telcos and Enterprise**



Complete Solutions Set for WDM and Dark Fiber Applications

Building agile CWDM/DWDM infrastructure based on the latest technologies providing rich feature set combined with flexible network design to meet the most demanding network needs.

PacketLight's carrier-class CWDM, DWDM and OTN optical platforms offer the flexibility to build a cost-effective, highly efficient network for enterprises, telcos and managed services providers. PacketLight products are compact highly integrated solutions that meet the challenges faced by operators with simplified plug and play deployment and easy management for transport networks, data centers, storage facilities and enterprise connectivity.

PacketLight's product portfolio is designed with the following mindset:

Carrier grade reliability

PacketLight Networks offers reliable, carrier grade CWDM, DWDM and OTN solutions that ensure access to business and critical data while protecting investment with scalable, pay-as-you grow architecture without service disruption, and carrier class service with guaranteed SLA (Service Level Agreement).

Rich high-end feature set

PacketLight's unique, integrated (1U) architecture is carrier grade feature rich and allows scalability, manageability and ease of use and maintenance to support any WDM infrastructure from simple Point-to-Point networks to carrier class metro access rings and linear add-and-drop networks.

Flexibility and scalability

PacketLight's product suite offers multirate Transponders, Muxponders, Optical Amplification, pluggable optics and ROADMs to provide unlimited flexibility to build a cost effective, scalable, highly efficient optical network infrastructure for carriers, enterprise campuses and Data Centers.

Compact, low power consumption solution

PacketLight products present the leading edge in small footprint WDM products. They have the highest port density in 1U footprint, thus decreasing the cost of space and power consumption, the two issues that are the biggest challenges for data centers and central offices.

Operate your network with ease

PacketLight's NMS/EMS LightWatch and the built-in free web based management tools provide remote configuration, performance monitoring, fault management, and ease of administration capabilities that enable a user to quickly adapt to the equipment without complicated education process.

Solutions that provide solid savings

PacketLight's modular design allows customers true pay-as-you-grow architecture to significantly decrease CAPEX. In addition, simplified operation and remote management eliminate high maintenance cost decreasing the overall OPEX of the organization.

FEATURE OVERVIEW

- CARRIER CLASS FEATURE SET
- INTEGRATED OTN LAYER
- MULTIRATE TRANSPONDERS
- MUXPONDERS FOR HIGH WAVELENGTH UTILIZATION
- SCALES UP TO 88 WAVELENGTHS
- AMPLIFICATION OVER LONG DISTANCES
- PERFORMANCE MONITORING
- SUPPORTS SINGLE OR DUAL FIBER
- SUPPORTS TUNABLE XFP's
- LOW LATENCY CONNECTIVITY
- HOT SWAPPABLE PSU AND FAN
- EMS/NMS MANAGEMENT PLATFORM
- COMPACT 1U DEVICES
- SIMPLE TO INSTALL AND CONFIGURE
- COST-EFFECTIVE CPE DEVICE



MULTI RATE SUB-10G CWDM/DWDM SOLUTIONS

The PL-400 is a highly flexible metro C/DWDM platform for transport of storage, data, voice, and video applications over dark fiber and C/DWDM networks. PL-400 is designed primarily as an efficient C/DWDM transport device. It is typically deployed as a CLE (Customer Located Equipment) in enterprise campus environments and in central offices or as service demarcation point for dark fiber provider and carriers providing a fully managed optical layer.



10G CWDM/DWDM SOLUTIONS

The PL-1000 family is a carrier-class 1U metro CWDM/DWDM platform with a built-in OTN option for transporting 10Gbps of data, voice and storage applications, as well as video over dark fiber and WDM networks. The PL-1000's capabilities, dimensions and competitive cost make it the ideal solution for evolving Metro Ethernet networks, enterprise networks, campus environments, as well as for central office connectivity and backbone networks. The PL-1000/1000TN supports up to six 10G services. Each service is configured independently, using PacketLight's user-friendly web-based management tool. Additionally, by stacking multiple PL-1000s, customers can expand four wavelengths to up to 88 wavelengths, thus achieving a high level of scalability and low initial investment in a pay-as-you-grow model.



COMBINED 10G/SUB-10G SOLUTIONS

PL-1000E is a unique, all-in-one optical product supporting 8G FC, 10G, and sub-10G services. The PL-1000E is unprecedented with its rich feature set, cost effective, compact 1U chassis with low power consumption. The PL-1000E supports the full spectrum of FC protocol rates: 1Gbps, 2Gbps, 4Gbps, 8Gbps and 10Gbps. Together with its extremely low latency, low power consumption, small foot print (1U, ETSI) and affordable cost, PL-1000E is best in class CWDM/DWDM solution for connecting two data centers or back up sites.



MUXPONDER FAMILY SOLUTIONS

PacketLight's family Muxponder solutions provide transparent multiplexing of up to 16 multirate/multiprotocol sub-10G services into a single protected 10G OTU2 wavelength or dual independent 10G OTU2 uplinks thus aggregating into a 20G link. With its multiprotocol and multirate support, the 10G OTU2 uplink can aggregate simultaneously SDH/SONET, Eth, Fibre channel and Video services, thus providing a perfect access platform for multiple clients' needs in an elegant, low latency 1U box. Low cost GbE muxponders of 4xGbE or 10x GbE on to 4G or 10G uplinks.



RECONFIGURABLE OPTICAL ADD DROP SOLUTIONS

PacketLight's PL-1000RO offers the ROADM functionality based on the most advanced next generation WSS (wavelength-selective switching) technology. The PL-1000RO is configured dynamically to add/drop selected wavelengths at any node in the network and seamlessly change the network node capacity as needed. In addition, it automatically maintains the equalization and power balance of the added and bypass wavelengths. The PL-1000RO also integrates EDFA for amplifying the wavelengths and delivering effective long distance DWDM solutions.



AMPLIFICATION SOLUTIONS

The PL-1000IL is designed to extend the power link budget of DWDM solutions in a cost effective manner. The PL-1000IL provides amplification for a range of optical solutions starting from 4 wavelengths to up to full C-Band and incorporates 6 main types of low-noise EDFAs (Erbium-Doped Fiber Amplifiers) Booster, Inline, Midstage, Pre-Amplifier and RAMAN. PL-1000IL fully integrates with PacketLight's WDM product line.



PASSIVE MULTIPLEXING SOLUTIONS

The PL-300 family of products extend PacketLight's optical network solution capabilities by providing a wide range of passive optical modules: Mux/Demux, DCM, OADMs. The PL-300 provides the needed optical layer functions of 4/8/16/44/88 DWDM wavelength Multiplexing, 4/8/16 CWDM wavelength Multiplexing. Supporting both Single Fiber and Dual Fiber infrastructure



LightWatch OSS MANAGEMENT

LightWatch EMS/NMS is a carrier-class element/network management system for network configuration, provisioning, monitoring and management. Fully compliant with TMN standards, the LightWatch system features advanced FCAPS capabilities.

INDUSTRY LEADING OPTICAL NETWORK MANUFACTURER

Established in 2000, PacketLight Networks offers a suite of leading CWDM, DWDM and OTN solutions for transport of data, storage, voice and video applications over dark fiber, WDM and OTN networks. Our products feature high quality and reliability along with performance and functionality at affordable prices. Our solutions are distinguished with low power consumption that is ideal for Customer Located Equipment (CLE) allowing maximum flexibility, as well as, ease of maintenance and operations and providing true Pay-as-you-grow architecture.

PacketLight products are represented by partners and resellers all over the world. Our products are deployed by all who are active in meeting the demands for metro ethernet, business continuity, triple play solutions and enterprise data sharing applications include:

- Carriers, service providers, and dark fiber providers
- Insurance and financial institutions
- Utility companies such as railway and power companies
- Defense and other strategic government organizations
- Universities and campuses
- Enterprise and manufacturers
- IT integrators and data center providers

PACKETLIGHT PARTNERS AND MANAGED SERVICES

PacketLight offers a worldwide network of resellers who provide you with a complete set of network services such as:

- Consultancy and network design
- Deployment services
- Managed services

Our partners bring a wealth of experience within the optical networking market and have successfully deployed hundreds of PacketLight solutions throughout the world. These partners offer our clients the benefit of their optical networking expertise by providing consultancy services that enable enterprise businesses to understand how to best implement a fiber based network for their organization.

They also offer deployment services for PacketLight equipment as well as network monitoring services fully managed from their state of the art NOCs. Many partners hold close relationships with local fiber providers and have ability to source out dark fiber for the clients, thus providing a fully end-to-end optical solutions to our customers.



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