Main Benefits
- Simultaneous OTDR diagnostics of up to 8 fibers
- OSA monitoring of up to 8 fibers
- In-service fiber monitoring
- Can operate over dark fiber or over third party network
- Detection of fiber tapping attempts
- Provide alarm when the trace events are changed
- Graphical display of the OTDR and OSA in any browser

Full Fiber Diagnostic Device
The PL-1000D conducts full non-disruptive monitoring and analysis of the network’s fiber. The OTDR monitors up to 8 fibers simultaneously, identifying a break or degradation in each fiber and where the break is. The embedded OSA provides the full optical DWDM spectrum and OSNR of up to 8 fibers simultaneously. The solution provides high-level visibility of the fiber characterization and operating wavelengths and saves network managers time and OPEX expenses associated with identifying and repairing faults.
## Technical Specifications

### Product Configurations
- Metro or Regional OTDR
- OSA

### Metro OTDR
- **Wavelength:** 1610nm
- **Distance Range:** 120 km
- **Dynamic Range:** 24dB
- **Loss Measurement Accuracy:** ±0.1dB
- **Max Optical Output Power:** 17dBm

### Regional OTDR
- **Wavelength:** 1610nm
- **Distance Range:** 140 km
- **Dynamic Range:** 32dB
- **Loss Measurement Accuracy:** ±0.1dB
- **Max Optical Output Power:** 20dBm

### OSA
- **Channel Spacing:** 50GHz or 100GHz ITG grid
- **Frequency Window:** C-band
- **Frequency Accuracy:** ±0.1GHz
- **Slice Width:** 0.3125GHz
- **Min Channel Width:** 312.5MHz
- **Max Channel Width:** 4.875THz
- **Input Channel Power (Pch):** -35dBm – 0dBm
- **Channel Power Accuracy:** ±0.5dBm

### Network Management
- **Management Protocols:**
  - SNMP, HTTP, HTTPS, Telnet, SSH, Syslog, RADIUS, TACACS+, SNTP, TFTP and FTP
  - Web browser over HTTP/HTTPS
  - SNMPv2/SNMPv3
  - TFTP/SFTP
  - PacketLight LightWatch™ NMS/EMS
  - Third party EMS NMS over SNMP
  - CLI over RS-232 or CLI over Telnet/SSH

### Visual Indicators:
- LED status indicators for Management and LAN ports, system Critical/Major/Minor indicators, and Power Supply alarms

### Software Upgrade:
- Hitless traffic - dual image

### Power Supply
- **AC/DC:**
  - 90 to 246 VAC, 50/60 Hz,
  - -36 to -60 VDC, 60W max
- **PSU Redundancy:**
  - Single/dual feeding, hot swappable
- **Cooling Unit:**
  - Hot swappable fan unit

### Environmental
- **Operating Temperature:**
  - -5°C to 50°C (+23°F to +122°F) operational
- **Humidity:**
  - 5% to 85% RH

### Physical Dimensions
- **1U:**
  - 1.77” (H) x 17.32” (W) x 9.05” (D)
  - 45mm (H) x 440mm (W) x 230mm (D)
- **Weight:** 5.5kg / 12.1lb (max)
- **Mounting:** 19”, ETSI and 23”

### Approvals & Standards
- CE, FCC, RoHS, REACH
- NEBS ready

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For more information please contact us at www.packetlight.com
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