X6500-OLP
Optical Transport Line Protection 1:1

Product Highlights

- It offers multiple line protection modes as 1:1 BP and SR;
- The switching time is within 15ms;
- It can be locked when there is no optical signal;
- It supports three management modes: Console,
- Telnet and network management system;
- It supports TFTP remote upgrade.

Product line X6500 overview

Product line X6500 is the XenOpt most cost effective offer of a complete line of managed Data Transport System Equipment and WDM (Wavelength-Division Multiplexing) solutions for service providers, content delivery networks, data centre operators, internet exchanges, cloud service providers, and others. Applications in point to point or fixed point to multipoint connections range from enterprise networks to data and storage area interconnect, from regional backbones to campus rings. Services from simple digital carrier signal transmission, signal regeneration, service demarcation to complex distributed multiplexed multirate up to 10 Gbp solutions can be offered with a variety of hardware platforms and managed by intelligent and open control and management software.

X6500 family is a generation of fully integrated fibre transmission platform. It offers a full range of solutions including:
o High density short and long distance connectivity from 100M to10GE,
o Optical multiplexing and de-multiplexing (DWDM - Dense WDM, CWDM - Coarse WDM),
o Optical add/drop, including custom solutions,
o Optical signal amplification (EDFA - Erbium-Doped Fibre Amplifier),
o Fibre optimization and protection (OLPS - Optical Line Protection System),
o Distance extension with amplification or digital signal regeneration,
o Network demarcation and OEO (Optical-Electrical-Optical) media conversion,
o Supports single or dual fibre transport solutions.

It is a fully modular product series that integrates a range of optical transport modules supporting wide range of variable speed interfaces and protocols in selection of chassis sizes for simple and flexible operations. All of these modules are hot pluggable, allowing simple maintenance procedures.
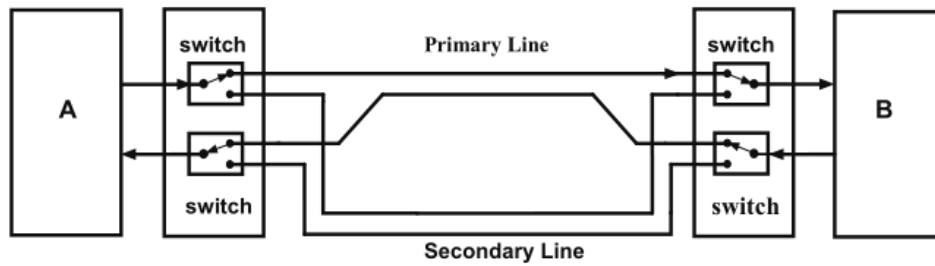
X6500-OLP overview

X6500-OLP supports the customers to establish the high-reliability, flexible and disaster-resist optical transport network with rapid fault recovery. X6500-OLP provides three types of line protection: 1:1: line protection, bypass protection and SR protection. For OLP service boards, switching control and management control are separated. It offers 1+1 dual redundant power supply as backup. It supports graphical network management system. Remote upgrade is available as well, which facilitates future management and maintenance

Performance Specification

Performance	Parameters
Wavelength Range	1310±50nm&1550±50nm
Monitoring Range of Optical Power	+23~50dBm
Insertion Loss	≤1.5dB
Retum Loss	≥45dB
Crosstalk	≥55dB
Optical Power Resolution	≤0.01dB

Performance	Parameters
Optical Power Measurement Accuracy	≤0.5dB(+25dBm~-40dBm) ≤1.0dB(-40dBm~-50dBm)
Wavelength Dependent Loss	≤0.25dB
Polarization Dependent Loss	≤0.1dB
Switching	≤15ms

Application

X6500-OPL_1:1 specifications

Warranty: Limited lifetime warranty

Ordering information

Part Number	Product Description
X6500-OLP	Optical Transport System Fiber Protection Switch
Other X6500 family products	
X6500-I	Optical Transport System 1 U 4 Slot Chassis
X6500-II	Optical Transport System 2 U 8 Slot Chassis
X6500-V	Optical Transport System 5 U 18 Slot Chassis
X6500-SC	Optical Transport System Management Module
X6500-TMUX-10G	Optical Transport System 10G Muxponder Module
X6500-10G	Optical Transport System Dual Transponder Module with FEC
X6500-SFP+	Optical Transport System Transponder SFP+
X6500-OLP-BIDI	Optical Transport System Fiber Protection Switch Bidirectional
X6500-BA	Optical Transport System Booster Amplifier
X6500-PA	Optical Transport System Pre-Amplifier
X6500-LA	Optical Transport System In-Line Amplifier

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