



X6500-OLP-BIDI

Optical Transport Line Protection Bidirectional



Product Highlights

- Relieve the repair pressure on the maintenance team;
- Improve the quality of the OTL
- Fast switch to ensure the normal operation of the transmission system
- Cost efficient and save a lot of fiber resources
- Improve the stability of the optical transmission lines

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:

- High density short and long distance connectivity from 100M to 10GE,
- Optical multiplexing and de-multiplexing (DWDM - Dense WDM, CWDM - Coarse WDM),
- Optical add/drop, including custom solutions,
- Optical signal amplification (EDFA - Erbium-Doped Fibre Amplifier),
- Fibre optimization and protection (OLPS - Optical Line Protection System),
- Distance extension with amplification or digital signal regeneration,
- Network demarcation and OEO (Optical-Electrical-Optical) media conversion,
- 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-BIDI overview

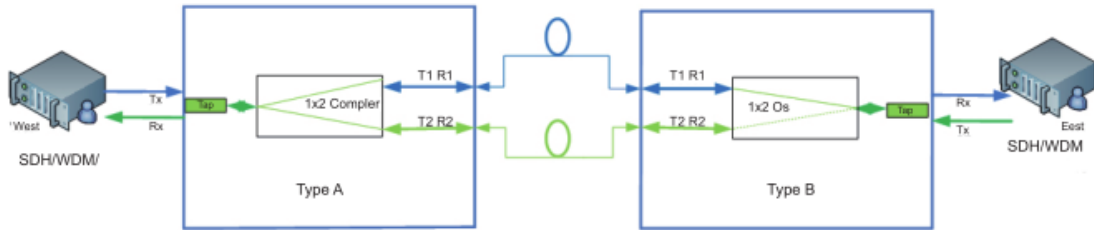
X6500-OLP-BIDI is an optical line protection device especially for rare optical fibre resources. Traditional OLP device needs to occupy 4 fibre cores. As a result, optical line protection cannot be realized due to lack of optical fibre resources at many places. Besides that, the two-fibre-mode is with high cost, and is a waste of fibre resources. It is not easy for networking, and not convenient for operation. However, OLP-BIDI only needs 2 optical fibres to realize optical transmission and optical line protection functions. When fault occurs to the primary optical fibre, it will automatically switch to the secondary optical fibre at the receiver end, so as to ensure the non-blocking operation of communication, improve the stability and reliability of communication system, and meanwhile save fibre resources.

Features:

- It provides single fibre bi-directional protection mode;
- It supports the fast switch between the primary and the secondary optical lines, and the switching time is less than 15ms;
- It supports TFTP remote upgrading and graphical management interface, which is easy for maintenance and management;
- It supports a variety of management modes such as Console, network management system and button settings;
- It supports working modes such as manual switch, automatic switch and automatic return;
- It supports a data rate of 155M ~ 2.5G or 10G. Fast LOS shutdown function can be realized;

- Simple and stable circuit design is adopted for the switch modules of the device, which is with high reliability. Moreover, the ARM and AVR modules are independent and without any affection from each other;
- It is with 1+1 redundant power (AC/DC optional), and with wide voltage range, which is safer and more stable.

Application



X6500-OPL_BIDI specifications

Power Supply: AC 220V (100V~276V)
DC -48V (-36V~-72V)

Storage Temperature: -40~+85°C
Operating Humidity: 5%~95% (Non
Condensation)

Operating Time: MTBF 140127 hours

Warranty: Limited lifetime warranty

Operating Temperature: -10~60°C

Altitude: -40 m ~ 5000 m

Ordering information

Part Number	Product Description
X6500-OLP-BIDI	Optical Transport System Fiber Protection Switch Bidirectional
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	Optical Transport System Fiber Protection Switch
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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