X6500-I
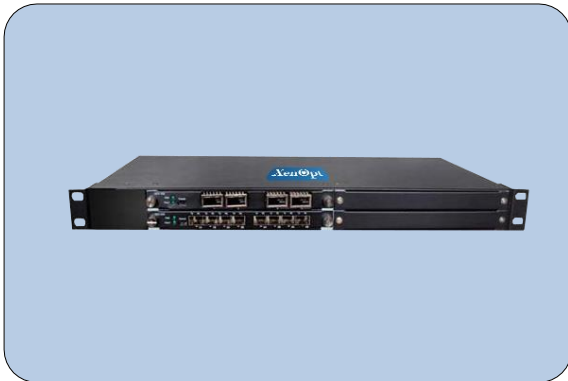## Optical Transport Platform 1U

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-I overview

The X6500-I chassis is the foundation for deploying and managing the X6500 multi-service mixed-media solutions. Thera are four slots available in the chassis. The model includes ETSI or 19" rack mount hardware and provides redundant PS and fans. AC and DC power supplies are available. Available are also non-powered chassis models to install passive only modules such as the X6500 WDM modules in unmanaged applications. The chassis supports hot-swapping of modules.

Product Highlights
- Chassis height 1 U
- Capacity: 4 slots
- Fitting X6500 family modules for custom configurations and solutions ranging from 100M to 10GE, DWDM & CWDM
  - Management Module
  - Variable rate transponders supporting SFP+ and XFP pluggables
  - 10G Muxponder
  - Fibre Amplifier

Robust hardware
- Mount:
  - 19" rack
  - ETSI (300/600) rack
  - Open rack
  - Outdoor cabinet
- Redundant power

| | SLOT 3 | | | SLOT 4 | |
| SLOT 1 | | | SLOT 2 | | |

A Management Card X6500-SC module that may be installed in dedicated slot 1 allows remote configuration and monitoring of all chassis and module parameters (temperature, fan status, and power supply, inventory ...) and network status.

X6500-I specifications

Dimensions
o Height: Standard 1 U box
o Height x Width x Depth: 45 mm x 445 mm x 325 mm
o Weight
o (empty chassis): 2.6 kg

Electrical
o Maximum power consumption: 50W
o Power supply DC-48V or AC220V built in (optional)
o 2 fans built in

Physical slots
o 4 pcs: 1 main slot for X6500-SC and 3 other X6500 modules

Working environment
o From -10℃to +50℃
o Relative humidity: 5%~95% no condensation

Storage environment
o From -20℃to +75℃

Reliability
o MTBF: 140160 hours

Product Characteristics
o adopting WDM technology
o easily network buildup and dilatation
o CWDM/DWDM/EDFA/OLPS multimode card hot plug

o 2.5G/10G 40KM/80KM different modules - mixed insertion
o single fiber single way, single fibre double way, ring network multimode
o SC cards uniformed management of all modules
o separated control and management of modules
o CDR (clock recovery integer) function

Warranty
o Limited lifetime warranty

Ordering information

Part Number	Product Description
X6500-I	Optical Transport System 1 U 4 Slot Chassis
Other X6500 family products	
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-SFP+	Optical Transport System Transponder SFP+
X6500-TMUX-10G	Optical Transport System 10G Muxponder Module
X6500-10G	Optical Transport System Dual Transponder Module with FEC
X6500-OLP	Optical Transport System Fibre Protection Switch
X6500-OLP-BIDI	Optical Transport System Fibre Protection Switch Bidirectional

For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

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