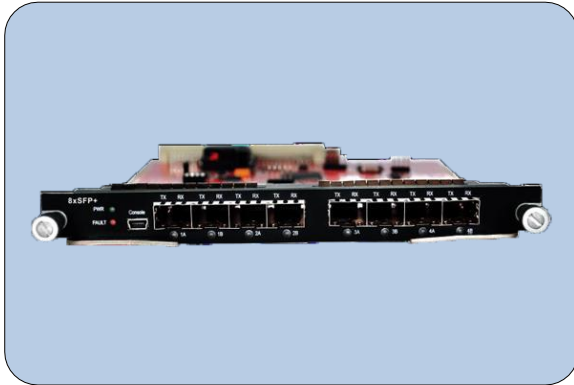




X6500-8SFP+

Optical Transport 8 x SFP+ Module



Product Highlights

- CWDM & DWDM
- 8 ports, SFP & SFP+ compatible
- Port rates 10 Gb/s max, compatible with 125M/155M/622M/1G/2G5/4G/6G/8G
- up to 10G SDH/SONET

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.

X6500-8SFP+ overview

X6500-8SFP+ is an optical fibre link wavelength converter (fibre amplifier). It regenerates optical signals in the principle of optical-electrical-optical (OEO) to carry out the amplification and wavelength conversion of optical signals. Wavelength division multiplexing can be performed by using C/DWDM multiplexer/de-multiplexer, which especially applies to optical transport systems of 155M up to 10G SDH/SONET, Ethernet etc. It provides cost-efficient solutions for the regeneration of optical signals and the transmission of scarce fibre resources.

X6500-8SFP+ specifications

Basic Functions:

- Realize the reshaping, regeneration and retiming of 8 channels of optical signals at any rate of 125Mb/s - 10Gb/s,
- Realize bidirectional relay of 4 channels of optical signals at any rate of 125Mb/s - 10Gb/s,
- Realize unidirectional relay of 4 channels of optical signal at any rate of 125Mb/s - 10Gb/s,
- Transform 8 channels of optical signals in any protocol and at any rate of 125Mb/s - 10Gb/s to DWDM standard wavelength in compliance with ITU-T G.694.1 or to CWDM standard wavelength in compliance with ITU-T G.694.2,
- Support 3R function of optical signals at a rate < or = 2.5G,
- For optical signals at a rate of 10G, the 3R function can be realized by SFP+ module with CDR.

Service Type:

- GE: Ethernet service with a rate of 1.25Gb/s. GE optical signals are supported,
- FE: Ethernet service with a rate of 125Mb/s. FE optical signals are supported,
- STM-1 : SDH service with a rate of 155.52Mb/s,
- STM-4: SDH service with a rate of 622.08Mb/s,
- STM-16: SDH service with a rate of 2.488Gb/s,
- ESCON: SAN service with a rate of 200Mb/s,
- FC100: SAN service with a rate of 1.06Gb/s,
- FC200: SAN service with a rate of 2.12Gb/s,
- DVB-ASI (Digital Mdeo Broadcasting - Asynchronous Serial Interface): digital TV service with a rate of 270Mb/s,
- SDI (Digital Video Broadcasting - Serial Digital Interface): digital TV service with a rate of 270Mb/s,
- HD-SDI: high-definition (HD) digital TV service with a rate of 1.4B5Gb/s,
- CPRI option1: the rate is 0.6144Gbis,
- CPRI option2: the rate is 1.2288Gb/s,

- CPRI option3: the rate is 2.4576Gb/s,
- Other service with any rate of 42Mb/s-2.67Gb/s,
- OTN service with a rate of 2.67Gb/s.
- 10GE LAN: Ethernet service with a rate of 10.31 Gb/s,
- 10GE WAN: Ethernet service with a rate of 9.95Gb/s,
- STM-64: SDH service with a rate of 9.95Gb/s,
- OTU2: OTN service with a rate of 10.71Gb/s,
- OTU2v: OTN service with a rate of 11.1Gb/s.

Coding Method:

- It adopts NRZ coding method.

Alarm & Performance Monitoring at the client and on the WDM side:

- monitoring of bias current of the laser,
- monitoring of the operating temperature of the laser,
- monitoring of the optical power etc.

Relay function:

- OEO-B.SFP+ module can realize the relay of optical signals at any rate of 125Mb/s-10Gb/s.

Loopback:

- Support loopback at the WDM side,
- Support loopback at the client side.

ALS Function:

- When no optical signal is received at the WDM side, the laser at the client side will be turned off, so as to avoid the harm to human body.
- There is no automatic shutdown function of laser for the optical interface at the WDM side.

Interface module:

- Optical interface SFP module, which can access any optical signal supported by the board,
- Single fiber bidirectional SFP module, which can access optical signals at any rate below 10G.

WDM Specifications:

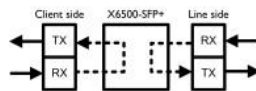
- It supports both DWDM and CWDM systems.

Warranty:

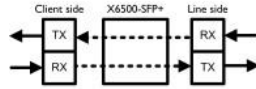
- Limited lifetime warranty

Application:

1. Single Port Loopback Mode



2. OEO Conversion Mode



Ordering information

Part Number	Product Description
X6500-8SFP+	Optical Transport System Transponder 8 x SFP+
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-SFP+	Optical Transport System Transponder SFP+
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
X6500-BA	Optical Transport System Boost Amplifier
X6500-PA	Optical Transport System Pre-Amplifier
X6500-LA	Optical Transport System InLine Amplifier
X6500-GTAP	Optical Transport System Network device for monitoring copper Ethernet connections

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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