X6500-PA

Optical Transport Pre-Amplifier

Product Highlights
- Booster Amplifier
- Adjusted gain
- Optional ACC, APC, AGC
- Hot swappable

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-PA overview

X6500-PA is a kind of erbium-doped optical fibre amplifier. It can regenerate optical signals of multiple wavelengths without conversion from optical to electrical to optical, which prolongs the transmission distance. Wavelength division multiplexing can be realized by using C/DWDM multiplexer or de-multiplexer, which specially applies to long-haul backbone network, metropolitan area network, access network as well as various SDH/PDH transmission systems.

Features:

o The gain can be adjusted if required;
o It is with high gain, low noise and good gain flatness;
o ACC, APC and AGC are optional;
o It supports amplification on the two stages;
o OADM or DCM modules can be accessed in the middle;
o It is with small-size and modular design and supports hot swap;
o Parameters of graphical interfaces can be set and viewed.

Power Amplification (PA)–Single Wavelength Application spcification:

Parameters	Min.	Typ.	Max.	Unit
Operating Wavelength Tunable Filter	1530		1580	nm
Operating Wavelength Filter with Fixed Wavelenght		1550.12		nm
Input Power (affected by rate)	-43		-15	dBm
Output Power	-7		0	dBm
Adjustment Range of Output Power			6	dB
Noise Index		4,5		dB
Input/Output Isolation	30			dB
Input/Output Return Loss	45			dB

X6500-PA specifications

Warranty: Limited lifetime warranty

Ordering information

Part Number	Product Description
X6500-PA	Optical Transport System Pre-Amplifier
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 Fibre Protection Switch
X6500-OLP-BIDI	Optical Transport System Fibre Protection Switch Bidirectional
X6500-BA	Optical Transport System Booster Amplifier
X6500-LA	Optical Transport System In-Line Amplifier

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