

XENYA



Product Family Modules

- Chassis
 - o Version 1 U
 - o Version 2 U
 - o Version 5 U
- Management Module
- Variable rate transponders supporting SFP+ and XFP pluggables
- 10G Muxponder
- Fibre Amplifier

Product Highlights

- 100M to 10GE
- DWDM & CWDM
- Custom configurations and solutions
- Management Software
- Mount
 - 19" rack
 - ETSI (300/600) rack
 - Open rack
 - Outdoor cabinet
 - Hot pluggable HW
 - Redundant power
 - Redundant air cooling

Optical Transport Platform

X6500

Product line X6500 overview



Product line X6500 is the Xenya d.o.o. 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.

Short Products Description and Ordering Information

Part Number	Optical Transport Platform Product Description
<p>X6500-I X6500-II X6500-V</p> 	<p>1 U 4 Slot Chassis 2 U 8 Slot Chassis 5 U 18 Slot Chassis</p> <p>The X6500 chassis is the foundation for deploying and managing the X6500 multi-service mixed-media solutions. Chassis are available with four, eight and eighteen slots. All models include ETSI or 19" rack mount hardware. 2U and 5U models support redundant PS and hot swappable fans, while 1U model provides redundant but not hot swappable 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. All chassis support hot-swapping of modules.</p> <p>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.</p>
<p>X6500-SC</p> 	<p>Management Module</p> <p>X6500-SC is the network management module for X6500 platform chassis. It has reliable advanced hardware based on ARM9 type CPU and Linux operating system that provides advanced secure features like SSH, SNMPv3 and RADIUS support. It incorporates many advanced features for complete setup and management of all X6500 series modules. Operation of management module is optional for all X6500 series modules once initial initialization of module has been performed. During module operation management module is required only for monitoring. This enables simple maintenance and reliable operation also in systems with single management module.</p> <p>The X6500-SC functions are as follows:</p> <ul style="list-style-type: none"> • Provides remote module and chassis configuration and monitoring, • Supports, local console, SSH console access, syslog ... • Support of SNMP v1, V2C and V3 for standard network monitoring, • Available management application with GUI interface, • Rapid service start-up after POR (Power On Reset), • Enables simple and rapid network deployment.

Part Number	Optical Transport Platform Product Description
<p>X6500-SFP+</p> 	<p>Transponder SFP+</p> <p>X6500-SFP+ is 3R optical fibre link wavelength converter that provides re-timing, re-shaping and re-transmission of optical signals. Based on 6 port non blocking cross connect switch, it can act as three independent transponders or as dual transponder with 1+1 protection switch or dual transponder with monitoring port.</p> <p>X6500-SFP+ supports the use of standard based MSA compatible pluggable SFP and SFP+ transceivers upto 11.1.</p> <p>Features:</p> <ul style="list-style-type: none"> • Six ports compatible with both MSA compatible SFP and SFP+ modules, • It supports a maximum port clock rate of up to 11.3Gb/s, and is compatible with 125M, 155M, 622M, 1G, 2G, 4G, 6G, 8G and 10G data rates, • It includes 6 port non-blocking cross-connect switch with ability to connect any port RX to any port TX, • It supports transponder functions with 1 + 1 protection, physical layer data multicasting, dynamic selection of data for monitoring and other functions, • It supports CDR function for SONET/SDH STM-1, STM-4. CDR for STM-16 and STM-64 are optional, • It supports 1GFC, 2GFC, 4GFC, 8GFC, 10GFC, • It can be operated and controlled independently – requires management module only for initial configuration. During operation management module is optional if needed for monitoring, • It supports shut-down of TX laser when there is no received optical signal (ALS).
<p>X6500-TMUX-10G</p> 	<p>10G Muxponder Module</p> <p>Muxponder module X6500-TMUX-10G is using TDM multiplexing technology to transfer of 8 x 1.25G (1GbE) traffic over single wavelength with 1 x 10Gb interface. This enables optimized use of DWDM wavelengths and fibre resources, improves stability, and save cost compared to standard transponder modules.</p> <p>Features:</p> <ul style="list-style-type: none"> • Multiplexes 8 1Gb client ports to single 10Gb line port using TDM technology, • It provides 8 standard SFP slots and 1 XFP slot, • 8 ports at the client side are independent from each other, • It provides data statistics and error counters for each port, • It supports remote loopback diagnostics of all client side and line side ports,

Part Number	Optical Transport Platform Product Description
<p>X6500-10G</p> 	<p>Dual Transponder Module with FEC</p> <p>X6500-10G card is dual transponder module with 4 XFP ports, that supports all 10Gb interfaces with and without FEC . It is typically used as optical transponder interfacing DWDM line signals to client colourless signals and as signal regeneration station on long distance optical lines. All 4 ports accept standard MSA compatible XFP pluggable transceivers. Through management it provides, pluggable modules DDM diagnostics, loopback diagnostics functions, data statistics and error counters.</p> <p>Features:</p> <ul style="list-style-type: none"> • Supports any 10Gb interface with clock rate up to 11.3Gb/s (10Gb LAN, 10Gb WAN, OTU2, OTU2e, STM-64), • Supports Forward Error Correction (FEC), • Management and control are independent – can operate without management module, • Local and remote Loopback test capability, • 3R signal regeneration: Retransmission, Reshaping, Retiming, • Supports CDR for 10 Gb Sonnet interfaces.

Visit <http://www.xenya.si> or contact Xenya d.o.o. on info@xenya.si for more information on **X6500 family** and other products.

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