
1U OEO optical electrical optical converter

Product introduction

XYT-1000 series OEO converters are used for re-amplifying and re-shaping the signals in the transmission process. It can save optical fiber resources and networking cost effectively, and solves the problem that the transmission distance is too long to transmit. With advantages of small volume optical signal, economy and safety, convenient construction and etc, it is widely used in various optical transmission fields and long-distance trunk transmission. Fiber-to-Fiber media converters extend network distance by converting wavelengths (1310 to 1550), amplifying optical power. Transponders as re-generators are also an optical – electrical – optical (O-E-O) converter with electrical amplification of the signal by FEC to realize long distances fiber transmission. XYT transponders are protocol and rate-transparent fiber media converters that support SFP, SFP+ and XFP transceivers with data rates up to 10Gbps, and our transponders provide seamless integration of different fiber types by converting multi-mode fiber to single-mode fiber, and dual fiber to single-fiber. Chassis is a 19-Inch rack mountable conversion center, capable of serving up to 16 FHC media conversion modules. In addition to the internal power supply, a back up supply is available as an optional extra. This unit and all FHC conversion modules are CE and FCC-Class approved and they also conform to CCITT specifications

Features

1. It adopts WDM technology, which is cost-effective and easy for network deployment and expansion;
2. It supports hot swap of multiple service boards such as CWDM/DWDM/EDFA/OLPS;
3. It supports the mixed configuration of multiple service boards with the variants of 2.5G/10G 40KM/80KM;
4. It offers diversified networking solutions such as unidirectional transmission over one single fiber, bidirectional transmission over one single fiber, bidirectional transmission over two fibers and ring network etc.;
5. For the management of the service boards, two ways are optional: either SC board controls all the service boards or each service board is respectively controlled;
6. It supports CDR (Clock Data Recovery) function.

Application

1. Conversion between Multi-mode and Single-mode
2. Conversion between Dual fiber and Single fiber
3. Conversion between different wavelength

Specification

Parameter	Description
OEO6500- I Dimensions	Standard 1U Pizza Box: 440*226*44mm
Number of Slots	4, including 1 for SC board and 3 for service boards
Power Supply	built-in DC-48V or AC-220V (redundancy)
Fan Tray	2 built-in fans
Weight	<2Kg
Operating temperature	-10°C~50°C
Storage Temperature	-40°C~85°C
Relative Humidity (Non- condensation)	5%~95%
MTBF	140127 hours

Ordering Information

XYT-OEO Device type	Rate	Interface Type	Distance relay	Wavelength
1=Card	0=155M		X1=Left to	
2=individua	1=1.25G		X2=Right to	
(AC220V)	2=2.5G	1=LC	1=40KM	XX/XX=custom
3=individua	3=10G	2=SC	2=60KM	Example:31/55=1310nm/1550nm
(DC-48V)	4=40G	3=FC	3=80KM	
4=individua	X=Customize		4=100KM	
(DC-24V)			5=120KM	