

2.5G OEO optical electrical optical converter

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.

Features

1. Varieties of devices: Different kinds of Devices are available to meet customers' different requirement.
2. Flexible plus transparent access to services at different rates: Provide ports with different rate to support services such as Ethernet, PDH, SDH, ATM, etc.
3. Trunk type: Wavelength conversion, mode conversion, re-shaping and enlarging optical power.
4. Trunk transmission distance: 10KM, 20KM, 30KM, 50KM, 80KM, 100KM, 120KM or above.
5. Manageable function: Provide varieties of network manageable mode, including SNMP, Web, CLI and telnet.

Application

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

Specification

System parameters	Technical indicators		
Rate	100M~1.25G	2.5G	10G
Average Output Power(dBm)	-6~3	-6~3	-5~3

Receiver Sensitivity(dBm)		-23~-32	-22~28	-19~24
Extinction ratio(dB)		≥9	≥10	≥10
wavelength		Singlemode,multimode		
Jitter performance		In line with the ITU-T G.825(2000)		
The side mode suppression ratio(db)		>30		
Fiber Type		G.652 G.653 G.655		
ProductSize	Card	25 (W) x88 (H) x116 (D) (mm)		
	individua	110 (W) x30 (H) x140 (D) (mm)		
	Single-slot chassis	137.5 (W) x 36.2 (H) x 164.8 (D) (mm)		
	2U chassis	428 (W) x 88 (H) x 322 (D) (mm)		
	Operating Temperature	-10°C ~60°C		
Environmental requirements	Storage Temperature	-40°C ~80°C		
	Relative humidity	5%~95%		
Power Requirements(Standard)		220 V/AC, 50Hz; -48 V/DC(Optional)		
Safety and EMC		In line with the FCC,UL,CE,TUV,CSA standards		
Power consumption	Single desktop	≤ 5W		
	2U	≤85W(10G≤150W)		

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	