

10G XFP OEO Muxponder

CWDM/DWDM System



Specification

10G OEO (XFP) amplifier card is an optical transmission device for amplifying and converting signals in the process of optical transmission. It can effectively save optical fiber resources and networking costs, solve the problem of excessive fiber distance, and is widely used in various trunk long-distance transmission.

Functions and features

- Supporting single-mode to multi-mode conversion, optical power amplification and other applications.
- Supporting unidirectional relay amplification or bidirectional relay amplification.
- 3R supports transmission of 10GbE, 10GFC, 10GFC+FEC, 10GFC, 8GFC, STM-64/OC-192, STM-64/OC-192+FEC, OTU-1e, OTU-2, OTU-2e, etc.
- Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).
- Supporting 2 channels 10Gbit/s bidirectional service amplification or 4 channels 10Gbit/s unidirectional service amplification.
- Supporting FEC function, which can optimize output, DDM signal monitoring and link detection(not sending optical signal when there is no optical signal received)
- Supporting each port software / hardware self-loop.
- Supporting software to close the port.

Parameters

System Parameter	Technical Index	
Maximum capacity of single card	2*10G bidirectional transmission, 4*10G unidirectional transmission.	
Wavelength range	CWDM: 1271~1611nm, Multimode: 850nm, 1310nm. DWDM: C-Band (100GHZ or 50GHZ).	
Service access types	PDH, SDH: STM-16/STM-64, SONET: OC-48/OC-192,10GE, 8G, 10G, POS, FICON, ESCON.	
3R technology	3R functions: (Re-amplifying), (Retiming), (Re-shaping).	
Network management functions	CDR function (DDM real-time monitoring), different rate adaptive setting function, business one-way bidirectional setting.	
Network management mode	NetRiver, WEB, CLI,	
Product dimension	177 (W)*20(H)*225(D)(mm).	
Environmental requirements	Working temperature	-10°C ~ 70°C
	Storage temperature	-40°C ~ 80°C
	Relative humidity	5% ~ 95% no condensation
Safety and EMC	Compliance with FCC, UL, CE, TUV, CSA standards.	
Power consumption	<20W.	

Networking Applications

The products optical amplifier equipment is widely used in data room interconnection, metropolitan area network, access network and other networks. The device is connected in series on the service line to efficiently re-amplify, re-time and re-shape the signal, completely transparent to the service, and supports multiple rates from 100Mbps to 100Gbps.

Application 1: Multichannel Amplification

Multichannel amplification is an optical amplifier device (EDFA) connected in series in service line, which can amplify multiple wavelength optical signals in a single core optical fiber uniformly.

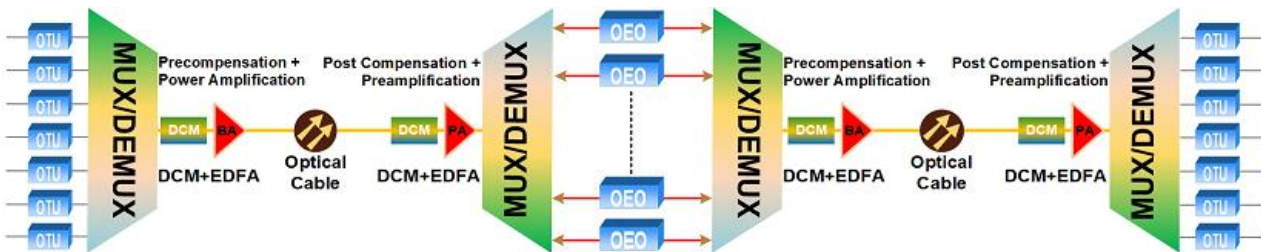


Figure 1: Multichannel Amplification Application

Application 2: Single Channel Amplification

Single channel amplification (SCA) is a relay amplifier (OEO) connected in series in the link, which is widely used to amplify single channel optical signals in optical fiber networks.

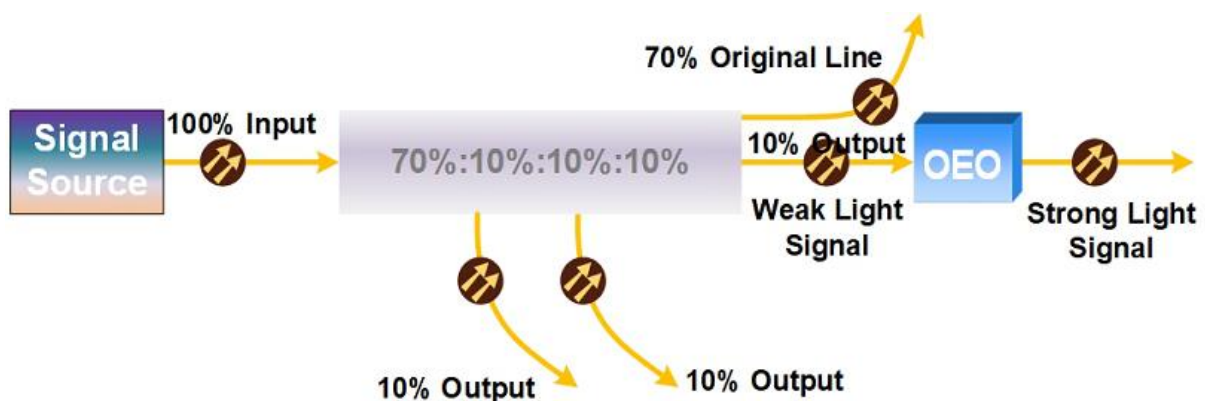


Figure 2: OEO Amplification Application