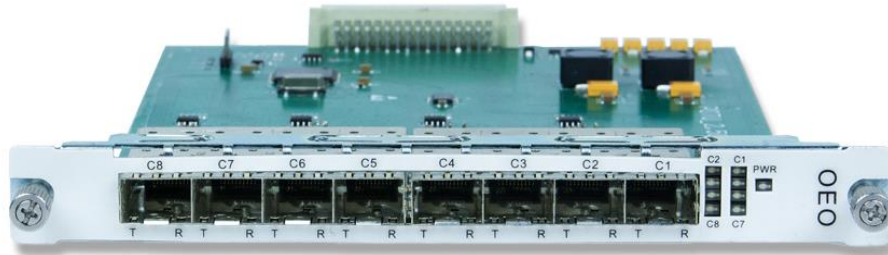


2.5G OEO Muxponder

CWDM/DWDM System



Specification

2.5G OEO amplifier card is an optical transmission equipment developed to amplify and transform 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.
- Supporting 4 channels 155Mbit/s to 2.488Gbit/s service at any rate for bidirectional relay amplification.
- Supporting 8 channels 155Mbit/s to 2.488Gbit/s service at any rate for unidirectional relay amplification.
- Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).
- The advanced cross-matrix can realize arbitrary scheduling of resources through network management control and increase flexibility.
- Supporting CDR function, which can optimize output, DDM signal monitoring and link detection (not lighting when there is no light received)
- Supporting software to close the port.

Parameters

System Parameter	Technical Index	
Maximum capacity of single card	4*2.488G bidirectional transmission, 8*2.488G unidirectional transmission.	
Wavelength range	CWDM: 1271~1611nm, Multimode: 850nm, 1310nm. DWDM: C-Band (100GHZ or 50GHZ).	
Service access types	PDH, SDH: STM-1/STM-4/STM-16, SONET: OC-3/OC-12/OC-48, FE, GE, 1G, 2G, CPRI 1~3, POS, FICON, ESCON.	
3R technology	3R functions: (Re-amplifying), (Retiming), (Re-shaping).	
Network management functions	CDR function (DDM real-time monitoring), no optical signal shutdown function, service access one-way or bidirectional setting.	
Network management mode	CLI, NetRiver, WEB.	
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.

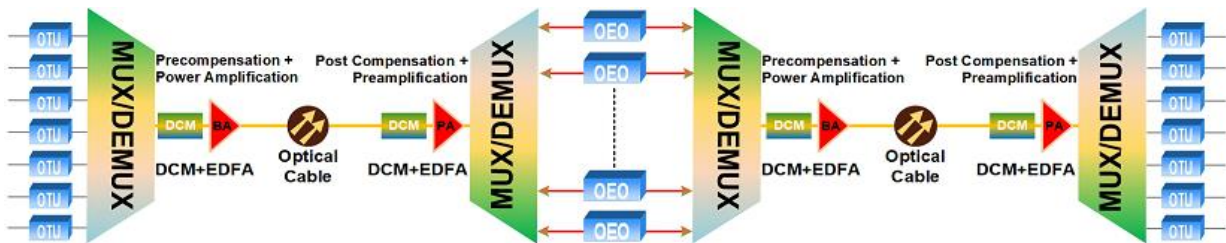


Figure 1: Multichannel Amplification Application

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.

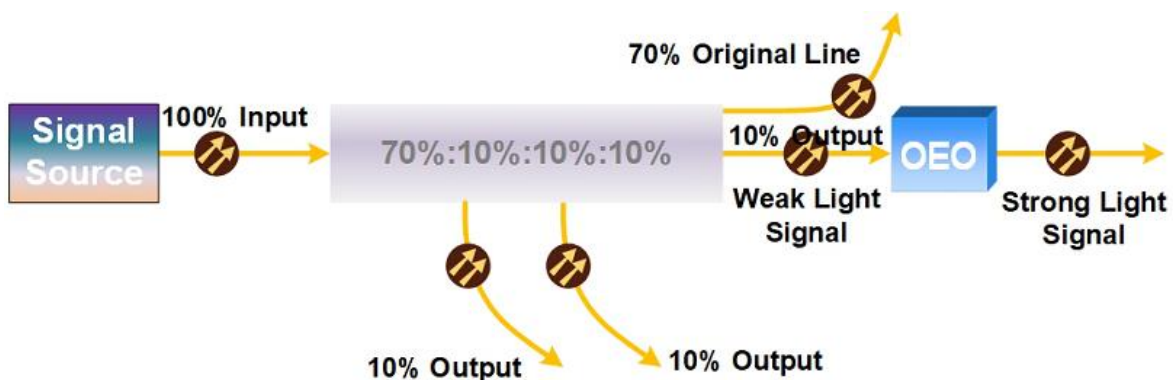


Figure 2: OEO Amplification Application