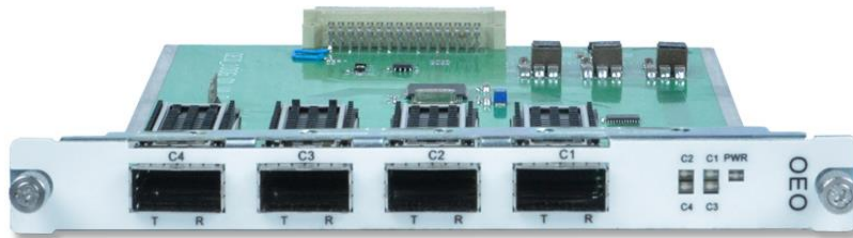


# 100G OEO Muxponder

## CWDM/DWDM System



### Specification

The 100G OEO amplifier card is a 100G signal amplifier designed for optical fiber connections, it uses the principle of optical-electro-optical conversion to regenerate the optical signal, to realize signal re-amplification, reshaping and timing. optical signal and can be converted to DWDM standard wavelength optical signal. It is suitable for SDH, SAN, SONET, ETHERNET, OTN, data center interconnection with DWDM multiplexer/demultiplexer to realize wavelength division multiplexing transmission. It provides a high-quality solution for solving transmission lines with insufficient fiber resources and high fiber line loss.

### 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 two-way 100G bidirectional service access or four-way 100G unidirectional Service access.
- Supporting a variety of client-side service access: 100G Base-SR4/CWDM4/LR4/PSM4/OTU4.
- Supporting SNMP-based unified network management platform, network management mode CLI, WEB, NetRiver (graphical interface).
- Supporting CDR function, which can optimize output, DDM signal monitoring and no optical signal shutdown function.
- Supporting software to close the port.

## Parameters

System Parameter	Technical Index	
Maximum capacity of single card	2*100G bidirectional transmission, 4*100G unidirectional transmission.	
Wavelength range	CWDM: 1271~1611nm, Multimode: 850nm, 1310nm. DWDM: C-Band (100GHZ or 50GHZ).	
Service access types	SDH, SAN, SONET, ETHERNET, OTN.	
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	<16W.	

## 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.

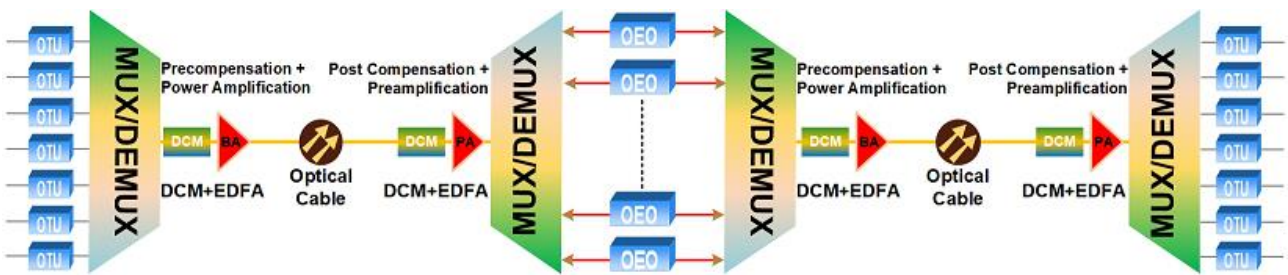


Figure 1: Multichannel Amplification Application

### 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.

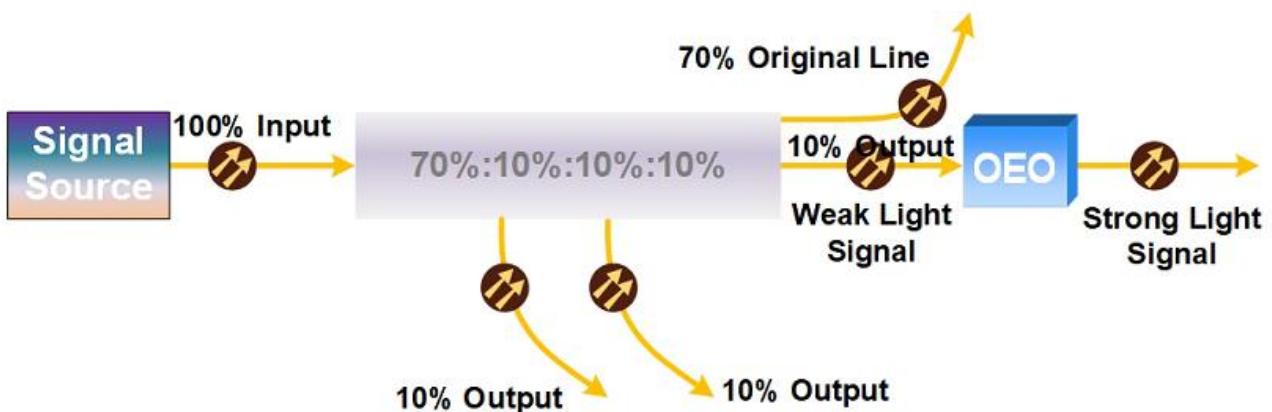


Figure 2: OEO Amplification Application