

100G Incoherent Muxponder

CWDM/DWDM System



Specification

100G OTU board is a 100G service access module for optical fiber links. It can perform 3R (re-amplification, reshaping, retiming) for 103.125Gbit/s~111.81Gbit/s services with arbitrary rate protocols, convertible to 4X25G DWDM standard wavelength optical signal. 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 DWDM transmission, wavelength conversion.
- The single board card supports 1-way 103.125 Gbit/s~111.81 Gbit/s two-way or one-way service access.
- Supporting multiple client-side service access: 100GBase-SR4/CWDM4/LR4/PSM4. Line side 4X25G.
- 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 ALS (Automatic Laser Shutdown) function.
- Supporting software to close the port.

Parametres

System Parameter	Technical Index	
Maximum capacity of single card	1*100G bidirectional transmission, 1*100G unidirectional transmission.	
Wavelength range	DWDM: C-Band (100GHZ or 50GHZ).	
Service access types	100GE, OTU4.	
3R technology	3R functions: (Re-amplifying), (Retiming), (Re-shaping).	
Network management function	CDR function (DDM real-time monitoring), ALS (Automatic Laser 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 standard.	
Power consumption	<13W.	

Networking Applications

The product wavelength conversion card (OTU) is widely used to perform 3R amplification (Re-amplifying, Retiming, Re-shaping) on various types of access service signals through the wavelength conversion board. Then the converted wavelength required for wavelength system transmission is coordinated with the multiplexer and splitter to transmit.



Figure: OTU Application