100G CFP Coherent Transponder

CWDM/DWDM System

Specification

100G CFP OTU board is a 100G service access module for optical fiber links. It can realize adjustable wavelength of CFP coherent optical module, convertible to DWDM standard wavelength optical signals, 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 supports 1-way 100G bidirectional or 1 channels unidirectional service access
- Supporting 100G CFP coherent optical wavelength tunable or 4*25G CFP incoherent optical module.
- Supporting multiple client-side service access: 100GBase-SR4/CWDM4/LR4/PSM4.
- 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.

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Parameters

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	SDH, SAN, SONET, ETHERNET, OTN.	
3R technology	3R functions: (Re-amplifying), (Retiming), (Re-shaping).	
Service access type	100GE, OTU4.	
Dispersion tolerance	±40000ps/nm@100G.	
OSNR tolerance	<12.5dB@100G	
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℃ ~ 70℃
	Storage temperature	-40℃ ~ 80℃
	Relative humidity	5% ~ 95% no condensation
Safety and EMC	Compliance with FCC, UL, CE, TUV, CSA standards.	
Power consumption	<20W.	

Networking Applications

The product wavelength conversion (OTU) card 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