

200G CFP Coherent Transponder

CWDM/DWDM System



Specification

The 200G CFP OTU board is a 100G service access module designed and developed for optical fiber. It can realize the wavelength adjustment of CFP coherent optical modules and can be converted to DWDM standard wavelength optical signals. Connection with a DWDM multiplexer/demultiplexer to realize transmission with wavelength division. It provides a quality solution for solving transmission lines with insufficient optical resources and high optical line loss.

Functions and features

- Supporting DWDM transmission, wavelength conversion.
- The single board supports 2 channels 100G bidirectional service access
- The line side supports 200G CFP coherent optical modules and 100G CFP coherent optical modules.
- 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.

Parametres

System Parameter	Technical Index	
Maximum capacity of single card	2*100G bidirectional transmission,	
Wavelength range	DWDM: C-Band (100GHZ or 50GHZ).	
Service access types	100GE, OTU4.	
Dispersion tolerance	$\pm 40000\text{ps/nm}@100\text{G}$ $\pm 10000\text{ps/nm}@200\text{G}$	
OSNR tolerance	<12.5dB@100G <21dB@200G	
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 standards.	
Power consumption	<21W.	

Networking Applications

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



Figure: OTU Application