

# 100G CFP2 Coherent Transponder

## CWDM/DWDM System



### Specification

100G CFP2 OTU board is a 100G service access module for optical fiber links. It can realize CFP2 coherent optical module or 4\*25G incoherent optical module with adjustable output optical power and wavelength in C-band, and can be converted into 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 CWDM or DWDM transmission, wavelength conversion.
- The single board supports 2 channels 100G bidirectional or 4 channels unidirectional service access
- Supporting 100G CFP2 coherent optical wavelength tunable and 4\*25G CFP2 incoherent optical module.
- Supporting multiple client-side service access: 100GBase-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, 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 function	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)*40(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	<27W.	

## 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