

ST-TDFC-BiDi Coherent Optical Module

The 100G/200G/400G CFP2 BiDi DCO Coherent Pluggable Optical Module is based on DP-QPSK or DP-16QAM design, supports adjustable frequency range of 192.15~194.675 THz, and is designed to support single wavelength DWDM single-fiber bi-directional transmission for 100G/200G/400Gbps network.

Product Features

- Support 100G, 200G, 400G programmable
- DP-DQPSK, DP-16QAM two modulation methods
- Support 192.15~194.675 THz frequency adjustable
- Supports single-fiber bi-directional transmission
- Supports flexible client interfaces: 100/200/400GbE
- 400GAUI-8, 200GAUI-4, 100GAUI-2 and CAUI-4 Compatible
- Built-in line-side OTN processing
- Supports local and remote data loopback
- Meets CFP2 MSA standards
- Hot Swap Electrical Package Interface
- Low latency SD-FEC
- Optimized DSP algorithms
- Dual LC optical interfaces
- Supply voltage: 3.3V
- Operating temperature: 15°C to +75°C
- Ultra-low power consumption: 25W
- RoHS-6 compliant (lead-free)

Application Areas

- Metro DCI Interconnection
- DWDM long-haul transmission

Product Specification

Parameters		Minimal	Conventional (weapons)	Greatest	Unit (of measure)
Operating Frequency Range		192.15		194.675	THz
Operating Frequency Accuracy		-1.5		+1.5	GHz
Transmit optical power range	100G QPSK		-5		dBm
	200G QPSK		-8,5		
	400G 16QAM		-12		
Received optical power range (ROSNR>35dB)	100G QPSK	-32		0	dBm
	200G QPSK	-27		0	
	400G 16QAM	-18		0	
OSNR sensitivity	100G QPSK	11,2			dB/0.1nm
	200G QPSK	13,7			
	400G 16QAM	22,5			
dispersion tolerance	100G QPSK			9600	ps/nm
	200G QPSK			9600	
	400G 16QAM			9600	
polarization mode dispersion tolerance	100G			80	ps
	200G			60	
	400G			60	
Cold start time				120	s
Transmit wavelength switching time				10	s