

Optical Module: 400G CFP2-DCO

The 400G CFP2-DCO coherent pluggable optical module launched by Sintai Communication Co., Ltd. is based on DP-QPSK / DP-8QAM / DP-16QAM design, and supports C-Band full-band tunable. It supports single-wavelength DWDM transmission of 100G/200G/400Gbps and above, and is suitable for data center 100G/200G/400G Ethernet and OTN OTU4 metropolitan optical transport network links.

Features

- Support 100G~400G programmable
- DP-DQPSK, DP-8QAM / DP-16QAM modulation methods
- Support Flex-grid, extended C-Band full-band adjustable
- Support flexible client interfaces: 100/200/400GbE, OTU4, OTUC1/ OTUC2/ OTUC4 and FlexO
- OTL4.4, FOIC1.4, CAUI-4 and FOIC1.2 compatible
- Built-in client-side and line-side OTN processing
- Supports near-end and far-end data loopback
- CFP2 MSA compliant
- Hot-swappable electrical package interface
- Low latency SD-FEC
- Optimized DSP algorithm
- Dual LC optical interfaces
- Supply voltage: 3.3V
- Operating temperature: 15°C to +75°C
- Ultra-low power consumption: 27.5W
- RoHS-6 compliant (lead-free)



Application Areas

- Metro DCI Interconnect
- DWDM long distance transmission

Parameter		Min.	Max.	Unit
Operating frequency range		191.275	196.125	THz
Operating frequency accuracy		-1.5	+1.5	GHz
Transmit optical power range		-8	3	dBm
Received optical power range (ROSNR>36Db)	100G QPSK	-32	0	dBm
	200G QPSK	-28	0	
	200G 8QAM	-28	0	
	200G 16QAM	-23	0	
	400G 16QAM	-20	0	
OSNR sensitivity	100G QPSK	11.5		dB/0.1nm
	200G QPSK	14.8		
	200G 8QAM	17.2		
	200G 16QAM	19.3		
	400G 16QAM	23.1		
Dispersion tolerance	100G QPSK		80000	ps/nm
	200G QPSK		48000	
	200G 8QAM		48000	
	200G 16QAM		25000	
	400G 16QAM		24000	
Polarization mode dispersion tolerance	100G		80	ps
	200G		60	
	400G		60	
Cold start time			116	s
Transmit wavelength switching time			86	s