

GF-6800-400G OEO

GF-6800 OEO Line Side 400G CFP2 port / Client Side 1 x QSFP-DD port

1. Product overview

400G OEO Transponder The 400G OEO Transponder is a high-capacity coherent DWDM transport module designed to convert and transport 100G and 400G client services over a coherent 400G DWDM line interface. The client side uses QSFP-DD interfaces and supports 400GE, 100GE, 100GE FlexE and OTU4 services. The line side uses a CFP2-DCO coherent DWDM module for up to 400G line-side transmission. The module provides advanced Ethernet performance monitoring, LLDP, latency measurement and FEC functionality. The configuration occupies 1 slot in the transport platform.



2. Key features

Supports 400G OEO conversion and coherent DWDM transmission • Supports 1 × 400GE client-side service • Supports multiple 100GE client-side services • Supports client-side service types including:: 100GE; 100GE FlexE; OTU4; 400GE

3. Applications

400G Optical-Electrical-Optical conversion • 400G coherent DWDM transmission • 100G to 400G service transport • Data Center Interconnect, DCI • Metro DWDM networks • Regional optical transport networks • Long-haul DWDM networks • Point-to-point coherent optical links • ROADM-based optical networks • Conversion between short-reach QSFP-DD client optics and coherent DWDM • Capacity upgrades of existing C-band DWDM infrastructure

4. Technical data

Supports 400G OEO conversion and coherent DWDM transmission	Maximum Client-Side Capacity: Up to 400 Gbps
Supports 1 × 400GE client-side service	Maximum Line-Side Capacity: 400 Gbps
Supports multiple 100GE client-side services	Client-Side Data Rates:: 100 Gbps; 400 Gbps
Supports client-side service types including:: 100GE; 100GE FlexE; OTU4; 400GE	Line-Side Data Rate: 1 × 400 Gbps
Client-side optical interfaces based on QSFP-DD	Client-Side Interface: QSFP-DD
Supports QSFP-DD optical technologies including:: DR; LR; Other compatible 100G/400G optical interfaces	Line-Side Interface: 1 × CFP2-DCO coherent DWDM
Line side supports 1 × 400G coherent DWDM service	Client-Side 400G Interface: 1 × 400G QSFP-DD
Line interface based on CFP2-DCO coherent technology	Supported Client Services:: 100GE; 100GE FlexE; OTU4; 400GE; Other compatible Ethernet and transport services
Supports tunable coherent DWDM operation	QSFP-DD Optical Technologies:: DR; LR; Other compatible optical standards
Supports FEC	Forward Error Correction: FEC / OFEC supported
Supports transmission delay / latency measurement	Packet Statistics: Supported
Supports OFEC	Byte Statistics: Supported
Suitable for metro, regional, long-haul and DCI networks	Delay Measurement: Supported
Occupies 1 slot	Card Width: 1 slot
Product Type: 400G OEO / Converter / Coherent DWDM Transponder	Dimensions: 107 mm (W) × 254 mm (D) × 42 mm (H)
	Maximum Power Consumption: ≈75 W

5. Recommended operating conditions

Operating Temperature: -5°C to +45°C
Storage Temperature: -40°C to +80°C
Relative Humidity: 5% to 95%, non-condensing

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6. Optical characteristics

Supports frequency range from 191.3 THz to 196.1 THz	Optical Transmit Power: Adjustable within the supported range of the installed CFP2-DCO module
Supports:: 50 GHz channel spacing; 75 GHz channel spacing; 100 GHz channel spacing; 150 GHz channel spacing	Coherent Modulation Formats:: DP-QPSK; 16QAM
Supports adjustable optical transmit power depending on the installed DCO module	OSNR Performance 100G DP-QPSK with OFEC: OSNR tolerance of 12.5 dB
Supports coherent modulation formats including:: DP-QPSK; 16QAM	OSNR Performance 200G DP-QPSK with OFEC: OSNR tolerance of 14 dB
Optical Frequency Range: 191.3–196.1 THz	OSNR Performance 400G 16QAM with OFEC: OSNR tolerance of 20 dB
Channel Spacing:: 50 GHz; 75 GHz; 100 GHz; 150 GHz	
Wavelength / Frequency Tuning: Adjustable within the supported coherent DWDM frequency range	

7. Digital diagnostics and management

Supports Ethernet RMON performance monitoring	Ethernet RMON Monitoring: Supported
Supports monitoring of:: Transmitted packets; Received packets; Transmitted bytes; Received bytes; Port utilization; CRC errors; Error packets	Port Utilization Monitoring: Supported
Supports LLDP – Link Layer Discovery Protocol	CRC Error Monitoring: Supported
	Error Packet Monitoring: Supported
	LLDP: Supported

8. Safety and regulatory

The product page does not specify regulatory certifications or a laser safety class.

9. Ordering information

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10. General notes

Line capacity is stated as 400G; the source OSNR list also includes 100G and 200G modes. • Equality signs (for example “=30 W”) and source asterisks are retained as published; no different limit is inferred. • Technical values and product image: GLOBALfiber product page, Technical Info. Unspecified parameters have not been inferred. Accessed 06.09.2026.

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