

GF-6800-400GTMUX

400G DWDM Muxponder
4x100G QSFP28 client ports / coherent CFP2 line interface

1. Product overview

The GF-6800-400GTMUX is a high-capacity 400G DWDM muxponder for data center interconnect, metro, backbone and long-haul optical transport. Four 100GE client interfaces are aggregated into a coherent DWDM line interface supporting up to 400G per wavelength. Tunable C-band operation and monitoring, diagnostics and fault-management functions support reliable optical transport.



2. Key features

- 4 x QSFP28 100G client interfaces
- 1 x coherent CFP2 DWDM line module
- 200G and 400G line-side capacity
- Tunable DWDM wavelength operation
- Adjustable DCO optical output power
- Forward Error Correction (FEC)

3. Applications

400G Data Center Interconnect (DCI); metro DWDM networks; long-haul DWDM transmission; backbone transport networks; 4x100G aggregation into a single 400G wavelength; high-capacity point-to-point optical transmission.

4. Technical data

Parameter	Specification
Product type / ordering number	400G DWDM Muxponder / GF-6800-400GTMUX
Model listed in Technical Info	HT-6800-400GTMUX [1]
Client-side capacity / interfaces	4 x 100 Gbps / 4 x QSFP28 100G
Line-side capacity / interface	1 x 200 Gbps or 1 x 400 Gbps / 1 x coherent CFP2 DWDM module
Supported services	100GE and other compatible service access
Forward Error Correction	FEC supported; enablement supported
Module dimensions (W x D x H)	107 x 254 x 42 mm
Maximum power consumption	=75 W (source notation) [2]

5. Recommended operating conditions

Parameter	Specification
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

Parameter	Specification
Optical line technology	Coherent CFP2 DWDM; up to 400G per wavelength
DWDM band / frequency range	C-band / 190.7-196.65 THz
Supported channel spacing	50 GHz, 75 GHz, 100 GHz, 150 GHz
Wavelength operation	Tunable
DCO optical output power	Adjustable; numerical range not specified on the product page

OSNR performance

Modulation / FEC	Rate	OSNR tolerance
DP-QPSK / OFEC	100G	12.5 dB
DP-QPSK / OFEC	200G	14 dB
16QAM / OFEC	400G	20 dB

OSNR values and mode names are reproduced as stated. The source does not define OSNR measurement conditions or min/typ/max qualifiers.

7. Digital diagnostics and management

Function group	Supported features
Monitoring	Digital diagnostics monitoring (DDM); OSNR monitoring; real-time bit error rate monitoring
Fault management	Automatic Laser Shutdown (ALS); Link Fault Pass-through (LFP); Local Fault insertion; transparent Local Fault and Remote Fault transmission
Network information / measurements	LLDP; RMON statistics; delay measurement
Testing / control	Hardware and software port loopback testing; loopback function; FEC enablement; IDLE code stream insertion

8. Safety and regulatory

Automatic Laser Shutdown (ALS) is supported. The product page does not state a laser safety class, regulatory certifications or compliance standards.

9. Ordering information

GLOBALfiber part number	Product description from product page
GF-6800-400GTMUX	GF-6800 400G CFP2 Muxpondonder Line 400G Client Side 4xQSFP28 port

10. General notes

[1] The product number and heading state GF-6800-400GTMUX; Technical Info lists model HT-6800-400GTMUX. Both source identifiers are retained.
[2] Maximum power consumption is written “=75 W” on the page; this notation is retained without changing it to a different limit.
The line-side capacity list specifies 200G and 400G, while the OSNR list also includes a 100G mode. All three OSNR entries are retained.
All technical values and the product image are taken from the specified GLOBALfiber product page. Parameters not stated there have not been inferred.