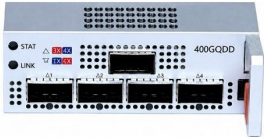


GF-6800-400GQDD

GF-6800 400G QSFP-DD Muxponder Line Side / Client Side 4xQSFP28 port

1. Product overview

GF-6800-400GQDD – 400G QSFP-DD DWDM Muxponder The GF-6800-400GQDD is a compact, high-capacity 400G DWDM muxponder designed for Data Center Interconnect (DCI), metro and optical transport networks. The module provides 4 × 100GE QSFP28 client-side interfaces and a QSFP-DD coherent DWDM line-side interface supporting flexible transmission rates from 100G to 400G. The solution supports multiple optical transmission technologies including FlexO, ZR, ZR+, DR and LR. Integrated diagnostics, OSNR monitoring, real-time BER monitoring and comprehensive fault-management functions provide reliable operation in high-capacity DWDM networks.



2. Key features

Product type: 400G QSFP-DD DWDM Muxponder • Model: HT-6800-400GQDD • Client-side capacity: 4 × 100Gbps

3. Applications

400G Data Center Interconnect (DCI) • 100G/200G/300G/400G coherent DWDM transmission • 4 × 100G service aggregation • 400ZR and ZR+ optical transport • Metro DWDM networks • High-capacity point-to-point DWDM links • Backbone optical transport networks

4. Technical data

Product type: 400G QSFP-DD DWDM Muxponder	Supported line-side transmission rates:100Gbps, 200Gbps, 300Gbps, 400Gbps
Model: HT-6800-400GQDD	Supported services: 100GE and other compatible service access
Client-side capacity: 4 × 100Gbps	Forward Error Correction (FEC): Supported
Client-side interfaces: 4 × QSFP28 100G	QSFP-DD interface technologies: FlexO, ZR, ZR+, DR, LR
Line-side interface: 1 × QSFP-DD 400G optical DWDM module	Tunable DWDM operation

5. Recommended operating conditions

Module size: 107 × 254 × 42 mm (W × D × H)
Operating temperature: -5°C to +45°C
Storage temperature: -40°C to +80°C
Relative humidity: 5% to 95%, non-condensing
Maximum power consumption: ≈75 W

GF-6800-400GQDD

6. Optical characteristics

Line-side frequency range: 191.3–196.1 THz	OSNR Performance 400ZR – oFEC – 16QAM: 24 dB OSNR tolerance
Supported channel spacing:75 GHz, 100 GHz, 150 GHz	OSNR Performance 200ZR – oFEC – 8QAM: 19 dB OSNR tolerance
Adjustable QSFP-DD optical output power, depending on module type	OSNR Performance 100ZR – oFEC – 8QAM: 17 dB OSNR tolerance

7. Digital diagnostics and management

Digital Diagnostics Monitoring (DDM)	Transparent Local Fault and Remote Fault transmission
OSNR monitoring	LLDP support
Real-time Bit Error Rate (BER) monitoring	RMON statistics
Automatic Laser Shutdown (ALS)	Hardware and software port loopback testing
Link Fault Pass-through (LFP)	FEC enablement
Local Fault insertion	Loopback function
	IDLE code stream insertion

8. Safety and regulatory

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

9. Ordering information

GF-6800-400GQDD GF-6800 400G QSFP-DD Muxponder Line Side / Client Side 4xQSFP28 port
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10. General notes

Technical Info also uses the model prefix HT-6800. • 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.

Source: GLOBALfiber product page – Technical Info