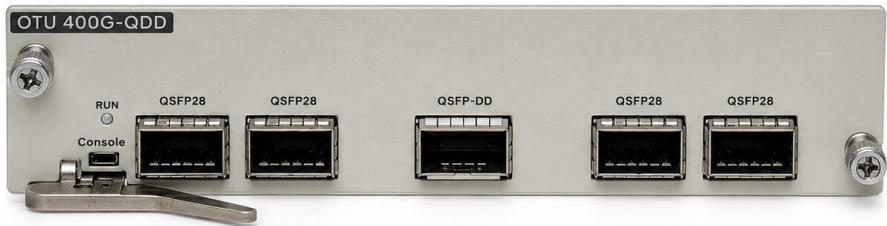


GF 6000-FQ2QDD

400G muxponder | 4 x QSFP28 to 1 x QSFP-DD

1. Product overview

High-capacity DWDM muxponder that aggregates four 100G QSFP28 client interfaces into one 400G QSFP-DD line interface and a single 400G wavelength. Digital diagnostics and real-time bit-error-rate supervision support signal monitoring and maintenance.



2. Key features

- Single-channel 400 Gb/s DWDM C-band transport
- 4 x 100G QSFP28 clients to 1 x 400G QSFP-DD line
- 3R regeneration: re-amplification, re-shaping and re-timing
- DDM for optical power, temperature and BER status
- Real-time BER supervision
- Hot-swappable module with TELNET, SNMP and Web GUI

3. Applications

Core and metro optical transport; data-center interconnects; 5G and cloud backbone aggregation; long-haul 400G DWDM; high-capacity enterprise networks.

4. Technical data

Parameter	Specification
Product number	GF 6000-FQ2QDD
Model in Technical info	GF-6000-FQ20DD
Client interface	4 x QSFP28, 100 Gb/s each
Line interface	1 x QSFP-DD, 400 Gb/s single channel
Regeneration	3R: re-amplification, re-shaping, re-timing
Dimensions (W x D x H)	191 x 253 x 42 mm
Chassis compatibility	GF-6000 CH04 / CH08 / CH20
Power consumption	<50 W

5. Recommended operating conditions

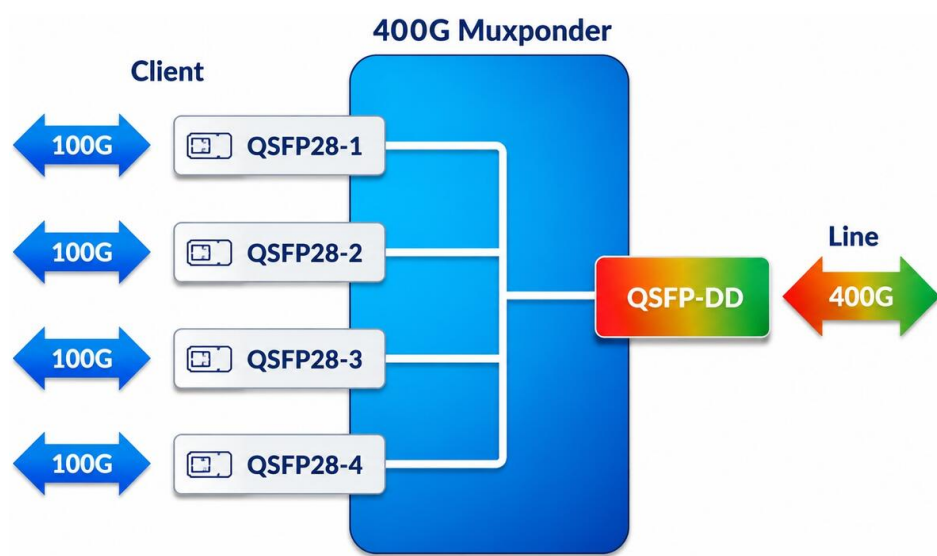
Operating temperature	Storage temperature	Relative humidity
-10 to +60°C	-40 to +80°C	5-95%, non-condensing

GF 6000-FQ2QDD

6. Optical characteristics

Parameter	Specification
Center wavelength range	1529.55-1565.50 nm, DWDM C-band
Grid standard	ITU-T G.694.1
Line rate / interface	400 Gb/s / QSFP-DD
Client rate / interfaces	4 x 100 Gb/s / QSFP28
Optical supervision	DDM optical power and temperature; real-time BER

Optical launch power, receiver sensitivity, optical budget and numeric transmission distance are not specified on this product page.



Functional illustration published on the product page.

7. Digital diagnostics and management

TELNET, SNMP and Web GUI. DDM monitors optical power, temperature and BER status. Real-time BER monitoring supports service supervision. The module is hot-swappable.

8. Safety and regulatory

ITU-T G.694.1 compliance is stated for the C-band optical interface. No laser safety class or additional regulatory certifications are specified.

9. Ordering information

Product number	Product description
GF 6000-FQ2QDD	400G muxponder 4 x QSFP28 to 1 x QSFP-DD