

QSFP56-200G-FR4

200GBASE-FR4 | 4 x 50G PAM4 | SMF

1. Product overview

200 Gb/s QSFP56 optical transceiver with four 50G PAM4 electrical lanes and four 50G PAM4 optical lanes. The module supports 2 km over single-mode fiber through a Duplex LC/UPC connector. Digital diagnostics monitoring is supported.

2. Key features

- 200 Gb/s maximum data rate; QSFP56 form factor
- 4 x 50G PAM4 electrical and optical modulation
- 2 km reach; Duplex LC/UPC connector
- DFB transmitter and PIN receiver
- Maximum power consumption: 6.5 W
- DDM/DOM support; CMIS 4.0

3. Applications

200GBASE-FR4 Ethernet over single-mode fiber.

4. Technical data

Parameter	Specification
Form factor	QSFP56
Maximum data rate	200 Gb/s (4 x 50 Gb/s)
Electrical modulation	4 x 50G PAM4
Optical modulation	4 x 50G PAM4
Fiber / connector	SMF / Duplex LC/UPC
Maximum power consumption	6.5 W

5. Recommended operating conditions

Parameter	Specification
Commercial temperature range	0 to +70°C

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6. Optical characteristics

Parameter	Specification
Wavelength / lane wavelengths	1271 / 1291 / 1311 / 1331 nm
Maximum cable distance	2 km
Fiber medium	SMF
Optical connector	Duplex LC/UPC
Transmitter type	DFB
Receiver type	PIN
TX power	-4.2 to +4.7 dBm
Minimum receiver power	-8.2 dBm
Power budget	4 dB
Receiver overload	4.7 dBm
Extinction ratio	>3.5 dB

Optical values follow the product page. The source does not identify TX power as average power or OMA, or state whether power values apply per lane or to the complete module.

7. Digital diagnostics and management

Parameter	Specification
DDM / DOM	Supported
Management specification	CMIS 4.0

8. Safety and regulatory

IEEE 802.3cd; IEEE 802.3bs; QSFP56 MSA; SFF-8665; SFF-8024; SFF-8679.

Laser safety classification and additional regulatory certifications are not specified on the product page.

9. Ordering information

Parameter	Specification
GLOBALfiber product number	QSFP56-200G-FR4
Product description	200GBASE-FR4 QSFP56, 4 x 50G PAM4, 2 km, SMF, Duplex LC/UPC
Coding options	Arista, Cisco, Generic, H3C
Warranty	5 years