

QSFP56-200G-SR4

200GBASE-SR4 | 4 x 50G PAM4 | MMF

1. Product overview

200 Gb/s QSFP56 optical transceiver with four 50G PAM4 electrical lanes and four 50G PAM4 optical lanes. The module supports 70 m on OM3 / 100 m on OM4 over multimode fiber through a MPO-12/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
- 70 m on OM3 / 100 m on OM4 reach; MPO-12/UPC connector
- VCSEL, 850 nm transmitter and PIN receiver
- Maximum power consumption: 5 W
- DDM/DOM support; CMIS 4.0
- Built-in TX and RX clock and data recovery (CDR)

3. Applications

200G Ethernet; data center interconnects; high-performance computing; enterprise core and distribution layers.

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	MMF / MPO-12/UPC
Maximum power consumption	5 W
Inbuilt FEC	No
CDR	TX and RX built-in CDR

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	850 nm
Maximum cable distance	70 m on OM3 / 100 m on OM4
Fiber medium	MMF
Optical connector	MPO-12/UPC
Transmitter type	VCSEL, 850 nm
Receiver type	PIN
TX power	-6.5 to +4 dBm
Minimum receiver power	-6.5 dBm
Power budget	3.5 dBm
Receiver overload	5 dBm
Extinction ratio	>3 dB

7. Digital diagnostics and management

Parameter	Specification
DDM / DOM	Supported
Management specification	CMIS 4.0

8. Safety and regulatory

IEEE 802.3bs; 200GBASE-SR4; QSFP56 MSA; SFF-8665; SFF-8636.

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

9. Ordering information

Parameter	Specification
GLOBALfiber product number	QSFP56-200G-SR4
Product description	200GBASE-SR4 QSFP56, 4 x 50G PAM4, 70 m on OM3 / 100 m on OM4, MMF, MPO-12/UPC
Coding options	NVIDIA(ETH), SuperMicro, Arista, Cisco, Generic, H3C