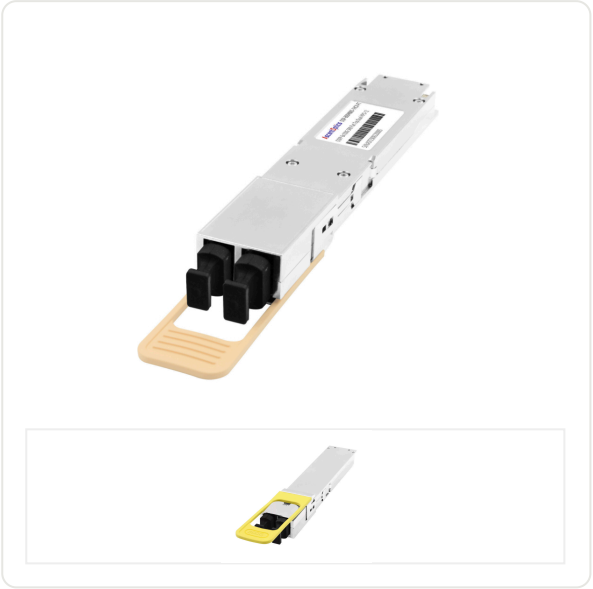
OSFP 800G 2xSR4 50m Flat (RHS)

OSFP twin-port transceiver · 800G (2 × 400G) · 850 nm · 50 m OM4 / 30 m OM3 · 2 × MPO-12/APC · NVIDIA compatible

The GLOBALfiber O800G-2SR4-R-NV is a 800G (2 × 400G) OSFP twin-port transceiver with flat top (RHS) for NVIDIA InfiniBand and Ethernet networks. It uses 8 × 100G PAM4 lanes at 850 nm for links up to 50 m OM4 / 30 m OM3 over 2 × MPO-12/APC. The module is coded for NVIDIA equipment and is available with InfiniBand or Ethernet coding.



KEY FEATURES

- OSFP twin-port form factor, flat top (RHS)
- 800G (2 × 400G), 8 × 100G PAM4, 53.125 GBd
- Wavelength 850 nm
- Reach up to 50 m OM4 / 30 m OM3
- 2 × MPO-12/APC optical connector
- Max. power consumption 16 W
- Digital diagnostics (DDM), hot-pluggable
- Case temperature 0 to +70 °C

APPLICATIONS & COMPATIBILITY

- NVIDIA adapters / systems: DGX H100/H200
- Replaces NVIDIA MMA4Z00-NS-FLT

KEY SPECIFICATIONS

Form factor	OSFP twin-port, flat top (RHS)
Data rate	800G (2 × 400G)
Lanes	8 × 100G PAM4, 53.125 GBd
Wavelength	850 nm
Reach	50 m OM4 / 30 m OM3
Connector	2 × MPO-12/APC
Fiber	Multimode
Max. power	16 W
Case temperature	0 to +70 °C
Protocol	InfiniBand or Ethernet (NDR)

ORDERING INFORMATION

GLOBALfiber item	Coding	Replaces NVIDIA	Description
O800G-2SR4-R-NVI	IB InfiniBand	MMA4Z00-NS-FLT	OSFP 800G 2xSR4 50m Flat (RHS)
O800G-2SR4-R-NVE	ETH Ethernet	MMA4Z00-NS-FLT	OSFP 800G 2xSR4 50m Flat (RHS)

Choose the coding that matches the host: InfiniBand for NVIDIA Quantum switches, Ethernet for NVIDIA Spectrum switches. Other coding on request: salg@globalfiber.no.

ABSOLUTE MAXIMUM RATINGS

Parameter	Min	Max	Unit
Supply voltage	-0.5	3.6	V
Control input voltage	-0.3	Vcc+0.5	V
Storage temperature	-40	85	°C
Relative humidity (non-condensing)	5	95	%

RECOMMENDED OPERATING CONDITIONS

Parameter	Min	Typ	Max	Unit
Case temperature	0	–	70	°C
Supply voltage	3.135	3.3	3.465	V
Power consumption	–	–	16	W
Link distance	0.5	–	50	m

OPTICAL CHARACTERISTICS – TRANSMITTER (PER LANE)

Parameter	Min	Typ	Max	Unit
Center wavelength	844	850	863	nm
RMS spectral width	–	–	0.6	nm
Average launch power per lane	-4.6	–	4.0	dBm
OMA outer per lane (TDECQ ≤ 1.8 dB)	-2.6	–	3.5	dBm
TDECQ	–	–	4.4	dB
Extinction ratio	2.5	–	–	dB
Average power with TX off	–	–	-30	dBm
RIN (OMA)	–	–	-131	dB/Hz

OPTICAL CHARACTERISTICS – RECEIVER (PER LANE)

Parameter	Min	Max	Unit
Damage threshold	5	–	dBm
Average receive power per lane	-6.4	4.0	dBm
Receive power OMA outer	–	3.5	dBm
Sensitivity OMA outer (TECQ ≤ 1.8 dB)	–	-4.6	dBm
Stressed sensitivity OMA outer	–	-2.0	dBm
Receiver reflectance	–	-12	dB

DIGITAL DIAGNOSTICS (DDM)

Parameter	Range	Accuracy
Case temperature	0 to 70 °C	±3 °C
Supply voltage	0 to Vcc	±0.1 V
TX bias per lane	0 to 100 mA	±10 %
TX power per lane	Operating range	±3 dB
RX power per lane	Operating range	±3 dB

COMPLIANCE

- IEEE 802.3db (400GBASE-SR4)
- OSFP MSA
- CMIS 5.0
- IEEE 802.3ck (400GAUI-4 / 800GAUI-8 C2M)
- Class 1 laser product
- RoHS compliant

INSTALLATION NOTES

- Use in OSFP host ports designed for flat top (RHS) modules.
- Confirm host support, port mode, firmware version and FEC before deployment.
- Check the optical link budget and fiber loss for the full link (multimode fiber, 2 × MPO-12/APC).
- Keep connectors clean and capped when not in use.

NVIDIA, Quantum, Spectrum, ConnectX, BlueField and DGX are trademarks of NVIDIA Corporation. GLOBALfiber products are third-party compatible and are not manufactured or endorsed by NVIDIA. Specifications are subject to change without notice.