

Brocade 57-1000294-02 Datasheet



Brocade 57-1000294-02 64G 4x16G FC SWL QSFP+ Optical Transceiver

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KEY FEATURES

Brocade 4×16 Gbps SWL Fibre Channel □Compliant QSFP Optical Transceivers are hot-swappable, low-voltage (3.3 V) digital diagnostic optical transceivers that support high-speed serial links over multimode optical fiber at signaling rates up to 14.025 Gbps. They comply with the QSFP MSA mechanical specification (SFF-8436).

Brocade 4×16 Gbps SWL Fibre Channel □Compliant QSFP Optical Transceivers are tri-rated 850 nm QSFPs that comply with 14.025 Gbps Fibre Channel specifications, and compatible with 8.5 Gbps and 4.25 Gbps Fibre Channel specifications.

Product highlights include:

- 850 nm multimode VCSEL transmitter
- Diagnostic features per SFF-8472. "Diagnostic Monitoring Interface for Optical Transceivers" providing real-time monitoring of:
 - Transmitted optical power
 - Received optical power
 - Laser bias current
 - Temperature
 - Supply voltage

BROCADE 4×16 GBPS SWL FIBRE CHANNEL-COMPLIANT QSFP OPTICAL TRANSCEIVER SPECIFICATIONS

- Performance
 - Fibre Channel: 4×14.025 Gbps line speed, full duplex, tri-speed
 - (4×14.025 Gbps, 4×8.5 Gbps, and 4×4.25 Gbps)
- Media
 - Hot-pluggable, industry-standard QSFP, MTP 1×12 ribbon cable
 - connector; SWL
- Operating parameters
 - Transmit (Tx):
 - Wavelength: 840 to 860 nm
 - Spectral width: 0.50 nm
 - Average power: 1 dBm max per channel
 - RIN: ≤ 128 dB/Hz max
 - Optical return loss: 12 dB max
 - OMA: ≥ 3.0 dBm min per channel
 - Receive (Rx):
 - Wavelength: 840 to 860 nm
 - Average power: 2.4 dBm max per channel
 - Optical return loss: ≥ 12 dB min
 - SRS OMA: ≤ 10 dBm max per channel
 - 3 dB cutoff maximum: 18 GHz
- Operating distances
 - OM3 50 μ m
 - 4 Gbps Fibre Channel: 380 m
 - 8 Gbps Fibre Channel: 150 m
 - 16 Gbps Fibre Channel: 66 m
 - OM4 50 μ m
 - 4 Gbps Fibre Channel: 400 m
 - 8 Gbps Fibre Channel: 190 m
 - 16 Gbps Fibre Channel: 100 m
- Size
 - Width: 18.35 mm (0.72 in.)
 - Height: 12.90 mm (0.51 in.)
 - Depth excluding yellow pull-tab: 68.00 mm (2.68 in.)
 - Depth including yellow pull-tab: 132.00 mm (5.20 in.)
- Environmentals

- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Power
 - Power dissipation: 1.5 W

For more information of this Brocade 57-1000294-02, please visit Brocade website:

<https://docs.broadcom.com/doc/12379885>

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