

Product Brief

Highlights

- Provides two optical connections in a single transceiver to support high-density SAN solutions.
- Operates over duplex multimode fiber.
- Uses industry-standard SN connectors.
- IEC 60825-1 Class 1/CDRH Class 1 laser, eye-safe.
- RoHS 6 compliant.

Ordering Part Number

- XBR-000464 (1-pack)
- XBR-000465 (8-pack)

Brocade[®] 64G SWL SFP-DD

Double-Density Optical Transceiver for High-Performance Data-Center Network Connectivity

Overview

The Brocade[®] 64G short wavelength (SWL) double-density optical transceiver (SFP-DD), part of the Brocade family of optical transceivers, is optimized for Brocade G720 and G730 device or ISL connectivity. Dual SN connectors from a single SFP-DD transceiver allow organizations to connect more servers, storage, or switches in a small footprint. Each transceiver supports two independent connections of 64G Fibre Channel via a two-lane electrical interface.

The Brocade 64G SWL SFP-DD transceiver is hot-swappable and supports high-speed serial links over multimode optical fiber at signaling rates up to 57.8Gb/s.

Diagnostic features per SFF-8472, *Diagnostic Monitoring Interface for Optical Transceivers*, provide real-time monitoring of the following:

- Transmitted optical power
- Received optical power
- Laser bias current
- Temperature
- Supply voltage

End-to-End Compatibility and Reliability

The Brocade 64G SWL SFP-DD transceivers undergo rigorous qualification and certification testing to guarantee compatibility and ensure highly reliable connectivity in a storage network fabric.

Family of Optical Transceivers

Broadcom offers a comprehensive family of reliable optical transceivers to provide connectivity to Brocade director and switch products.

For additional information, contact a Brocade representative or visit www.broadcom.com/products/fibre-channel-networking/transceiver-modules.

Brocade 64G SWL SFP-DD Transceiver Specifications

System	
Performance	Fibre Channel: 57.8Gb/s, 28.05Gb/s, and 14.025Gb/s line speed, full duplex; autosensing of 64G, 32G, and 16G port speeds
Media	Hot-pluggable, industry-standard double-density optical transceiver (SFP-DD), short wavelength (SWL), SN connector
Operating Parameters	Transmit (Tx): <ul style="list-style-type: none"> Wavelength: 840 nm to 860 nm Spectral width: 0.6 nm Average power: -7.5 dBm to 4 dBm RIN: -128 dB/Hz max OMA: -4.5 dBm min (355 μW) Receive (Rx): <ul style="list-style-type: none"> Wavelength: 840 nm to 860 nm Average power: -9.4 dBm to 4 dBm max Optical return loss: 12 dB min Unstressed sensitivity: -7 dBm (200 μW) SRS OMA: -2.4 dBm (575 μW)
Operating Distances	OM3 50 μm (2000 MHz\timeskm): <ul style="list-style-type: none"> 16G Fibre Channel. Distance: 0.5m to 100m 32G Fibre Channel. Distance: 0.5m to 70m 64G Fibre Channel. Distance: 0.5m to 70m OM4, OM4+, and OM5 50 μm (4700 MHz\timeskm): <ul style="list-style-type: none"> 16G Fibre Channel. Distance: 0.5m to 125m 32G Fibre Channel. Distance: 0.5m to 100m 64G Fibre Channel. Distance: 0.5m to 100m
Mechanical	
Size	Width: 13.7 mm (0.54 inches) Height: 8.6 mm (0.34 inches) Depth: 79.19 mm (3.12 inches)
Environment	
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Power	
Power Dissipation	3.2W
Regulatory and Standards Compliance	
North America	UL/CSA 62368, CDRH Class 1
European Union	EN 60950, EN 60825 Class 1

Caution

Do not look through the optical ports, as it is a potential eye hazard. The SFP-DD transceiver is an ESD sensitivity Class 1 device. It should be handled accordingly.