

Product Brief

Brocade[®] 64G LWL (10 km) SFP+

Optimized, Certified Optical Transceivers for Extending Data Center Fabrics

Highlights

- Provides extended Fibre Channel connectivity over long distance.
- Operates over duplex single-mode fiber.
- Uses an industry-standard single-mode LC connector.
- Supports a link length of up to 10 km over single-mode fiber.
- IEC 60825-1 Class 1/CDRH Class 1 laser, eye-safe.
- RoHS 6 compliant with 7c-1 exemption.
- PC/UPC compatible

Ordering Part Number

- XBR-000468 (1-pack)
- XBR-000469 (8-pack)

Overview

The Brocade[®] 64G long wavelength (LWL) SFP+, part of the Brocade family of optical transceivers, is optimized for Brocade 64G director and switch products. Together, these optical transceivers provide state-of-the-art performance, while extending data center connectivity (up to) a distance of 10 km. This optical transceiver operates over single-mode fiber and uses an industry-standard LC connector.

Diagnostic features of the Brocade 64G LWL SFP+ optical transceiver comply with SFF-8472 Rev. 12.3, providing real-time monitoring of the following:

- Transmitted optical power
- Received optical power
- Laser bias current
- Temperature
- Supply voltage
- Power-on hours

End-to-End Compatibility and Reliability

The Brocade 64G long wavelength (LWL) SFP+ optical transceiver undergoes 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 LWL (10 km) SFP+ Specifications

System	
Performance	Fibre Channel: 57.8Gb/s, 28.05Gb/s, and 14.025Gb/s line speed, full duplex; auto-sensing of 64G, 32G, and 16G port speeds.
Media	Hot-pluggable, industry-standard small form-factor pluggable (SFP+), LC connector; LWL 10 km. This transceiver is targeted for long-reach applications with high-power transmitters.
Operating Parameters	Transmit (Tx): Wavelength: 1304.5 nm to 1317.5 nm Average power: -4.5 dBm to +4.2 dBm RIN: -134 dB/Hz max OMA: -1.5 dBm min, +4 dBm max Receive (Rx): Average power: +4.2 dBm max Optical return loss: -26 dB max Unstressed sensitivity: -8.9 dBm min
Mechanical	
Size	Width: 14.80 mm (0.58 inches) Height: 12.21 mm (0.48 inches) Depth: 56.70 mm (2.23 inches)
Environment	
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Power	
Power Consumption	2.0W
Regulatory and Standards Compliance	
North America	UL/CSA 62368, CDRH Class 1
European Union	EN 62368, EN 60825 Class 1

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