

Product Brief

Highlights

- Provides extended connectivity for Brocade X7 Director chassis-to-chassis interconnect.
- Operates over duplex single-mode fiber.
- Uses an industry-standard single-mode LC connector.
- Supports up to 2 km link length over single-mode fiber.
- IEC 60825-1 Class 1/CDRH Class 1 laser, eye-safe.
- RoHS 6 compliant.

Ordering Part Number

- XBR-000476 (1-pack)

Brocade[®] Gen 7 2 km ICL QSFP

Optimized, Certified Optical Transceiver for Extended Gen 7 ICL Connectivity

Overview

The Brocade[®] Gen 7 2 km ICL quad small form-factor pluggable (QSFP) transceivers, part of the Brocade family of optical transceivers, are optimized for Brocade X7 Director extended ICL connections. The Brocade Gen 7 ICL QSFP optics are hot-swappable, low-voltage (3.3V) optical transceivers. This CWDM optical transceiver operates over single-mode fiber and uses an industry-standard LC connector.

Diagnostic features of the Gen 7 ICL QSFP comply with the Common Management Interface Specification (CMIS) Rev. 4.0., providing 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 Gen 7 2 km ICL QSFP modules 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 Gen 7 2 km ICL QSFP Specifications

System	
Performance	4×53.125Gb/s line speed, full duplex
Media	Hot-pluggable, industry-standard QSFP, LC connector
Operating Parameters	Transmit (Tx): <ul style="list-style-type: none"> Wavelength: 1264 nm to 1337 nm Average power: -4.2 dBm to +4.7 dBm per channel OMA: -1.2 dBm to +4.5 dBm per channel Receive (Rx): <ul style="list-style-type: none"> Wavelength: 1264 nm to 1337 nm Average power: +5.7 dBm Unstressed sensitivity: -6.5 dBm Receiver return loss: Max -26 dB SRS OMA: -3.6 dBm
Operating Distances	2 km on single-mode fiber
Mechanical	
Size	Width: 18.35 mm (0.72 in.) Height: 13.25 mm (0.52 in.) Depth: 71.0 mm (2.79 in.)
Environmental	
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Power	
Power Dissipation	6W max
Regulatory and Standards Compliance	
North America	UL/CSA 62368, CDRH Class 1
European Union	EN 60950, EN 60825 Class 1 CDRH 21 CFR 1040.10 and Laser Notice 56

Caution

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