

Avago AFBR-79EBPZ Datasheet



Avago BIDI QSFP+ Pluggable, Duplex LC 40 Gigabit Ethernet Fiber-Optics Transceiver

AFBR-79EBPZ

The Avago AFBR-79EBPZ is a Four-Channel, Pluggable, LC Duplex, Fiber-Optic QSFP+ Transceiver for 40 Gigabit Ethernet Applications. This transceiver is a high performance module for short-range duplex data communication and interconnect applications. It integrates four electrical data lanes in each direction into transmission over a single LC duplex fiber optic cable. Each electrical lane operates at 10.3125 Gbps and conforms to the 40GE XLPPI interface.

The AFBR-79EBPZ transceiver internally multiplexes an XLPPI 4x10G interface into two 20Gb/s electrical channels, transmitting and receiving each optically over one simplex LC fiber using bi-directional optics. This results in an aggregate bandwidth of 40Gbps into a duplex LC cable. This allows reuse of the installed LC duplex cabling infrastructure for 40GbE application.

Link distances up to 100 m using OM3 and 150m using OM4 optical fiber are supported. These modules are designed to operate over multimode fiber systems using a nominal wavelength of 850nm on one end and 900nm on the other end. The electrical interface uses a 38 contact QSFP+ type edge connector. The optical interface uses a conventional LC duplex connector. This module incorporates Avago Technologies proven integrated circuit and VCSEL technology to provide reliable long life, high performance, and consistent service.

Features

- Compliant to the 40GbE XLPP1 electrical specification per IEEE 802.3ba-2010
- Compliant to QSFP+ SFF-8436 Specification
- Power Level 4: Max Power 3.5W
- Class 1M Eye Safety
- High port density: 21mm horizontal port pitch
- Operates at 10.3125 Gbps per electrical channel with 64b/66b encoded data
- Links up to 100m using OM3 and 150m using OM4 optical fiber
- +10 to +70°C case temperature operating range
- Proven High Reliability technology: Avago VCSEL transmitters and Avago PIN receiver
- Hot pluggable transceiver for ease of installation and servicing
- Two wire Serial (TWS) Management Interface with maskable interrupts for expanded functionality
- Utilizes a standard LC duplex fiber cable allowing reuse of existing cable infrastructure

Applications

- 40 Gigabit Ethernet interconnects
- Datacom/Telecom switch & router connections
- Data aggregation and backplane applications
- Proprietary protocol and density applications

Specifications

- Product Series: Optical Transceivers QSFP+
- Data Rate: 40 Gbps
- Product Type: LC
- Fiber Type: Multimode Glass
- Maximum Distance(M): 150
- Emitter: VCSEL

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