

AFBR-83EVK CXP Evaluation Kit

For CXP Pluggable Parallel-Fiber-Optics Modules



Product Brief

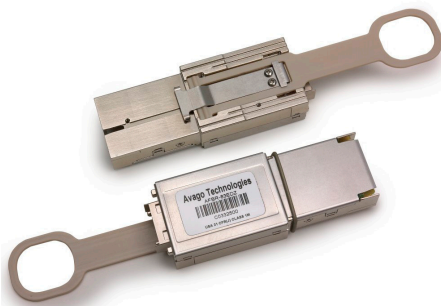
Introduction

The purpose of the Evaluation Kit is to provide the designer with a convenient way to evaluate the electrical and optical performance of the Avago Technologies' Twelve-Channel CXP transceivers.

The AFBR-83EVK Evaluation Kit is to be used in conjunction with the Avago Technologies AFBR-83xDZ family of CXP Transceivers.

The AFBR-83PDZ is a Twelve-Channel, Pluggable, Parallel, Fiber-Optic CXP Transceiver. It integrates twelve data lanes in each direction with greater than 120 Gbps aggregate bandwidth. Each lane can operate at 10.3125 Gbps up to 100 m using OM3 fiber and 150 m using OM4 fiber. These modules are designed to operate over multimode fiber systems using a nominal wavelength of 850 nm. The electrical interface uses an 84 contact edge type connector. The optical interface uses a 24-fiber MPO/MTP connector (not included). This module incorporates Avago Technologies proven integrated circuit and VCSEL technology to provide reliable long life, high performance, and consistent service.

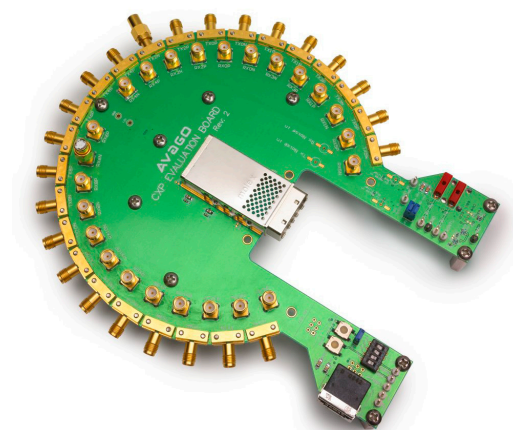
CXP Twelve-Channel Transceiver



Features

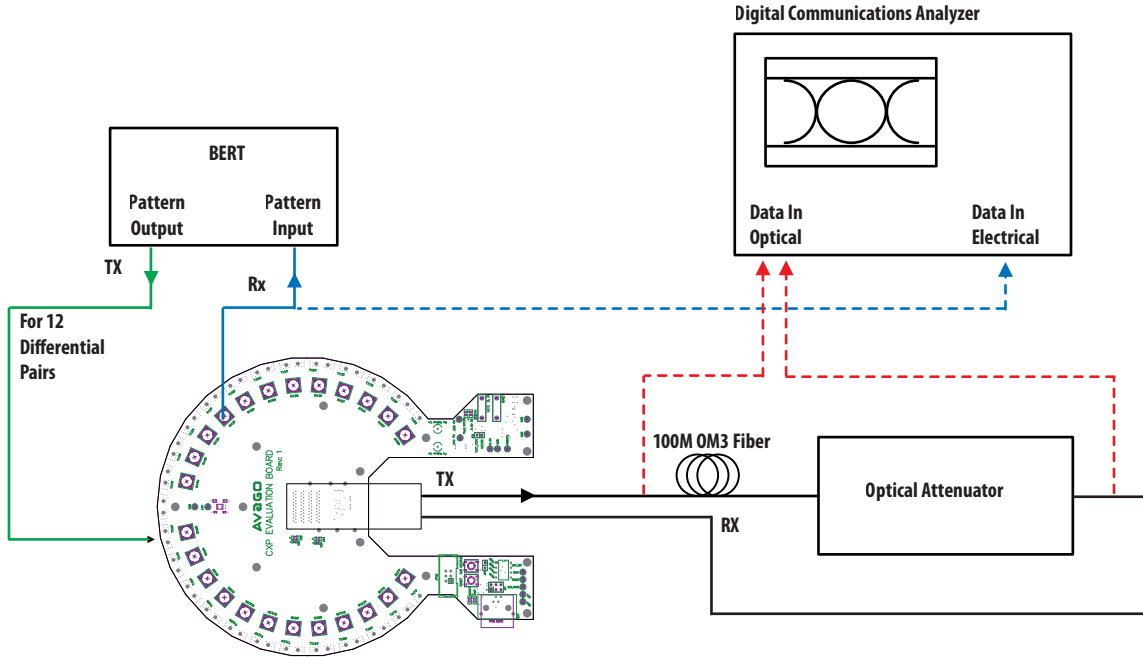
- The AFBR-83EVK Evaluation kit can be used with the
 - Avago Technologies AFBR-83PDZ 12x 10.3125 Gbps transceiver
 - Avago Technologies AFBR-83BDZ 12x 10.0 Gbps QDR transceiver for InfiniBand Applications
 - Avago Technologies AFBR-83EDZ for 100 Gb Ethernet (100 GBASE-SR10) applications (ten lanes)
- Uses iPort Two-Wire-Serial Clock and Data communication for control and digital diagnostics monitoring
- Probe point access to Low speed signals, for example, Int_L/Reset_L, Two-wire serial
- 24 Surface mount SMA connectors to connect to 12 differential RX high-speed lanes and 24 Side mounted SMA connectors to connect to 12 differential TX high speed lanes

CXP Twelve-Channel Transceiver Evaluation Board AFBR-83EVB (Top View)



This preliminary data is provided to assist you in the evaluation of product(s) currently under development. Until Avago Technologies releases this product for general sales, Avago Technologies reserves the right to alter prices, specifications, features, capabilities, functions, release dates, and remove availability of the product(s) at anytime.

Operating Block Diagram for CXP Transceiver Optical and Electrical Testing



CXP Transceiver Typical Test setup

Avago CXP Viewer Software

Included with the Avago Evaluation Kit is a CD that contains the customer user interface software. This user interface software is PC and Windows compatible and can be used to easily query and manipulate CXP transceivers. For example, the user can easily see the Real-Time Digital Diagnostic Monitors of the transceiver and manipulate settings for Equalization, De-Emphasis and Output Amplitude.



For product information and a complete list of distributors, please go to our web site: www.avagotech.com

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