



Avago Technologies Announces High-Density 120 Gbps Parallel Optical Solutions for Cloud Computing and Data Center Applications

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Proprietary Parallel Multichannel MiniPOD(TM) Optical Transmitters/ Receivers and CXP Optical Transceivers Solve Bandwidth Density Problems in Data Centers

SAN JOSE, Calif., June 27, 2012 (GLOBE NEWSWIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for wireless, wireline, and industrial applications, today announced the availability of production volumes of 120 Gbps multichannel optical transmitter and receiver modules for "inside-the-box" data-center applications and a CXP pluggable transceiver for board-edge "box-to-box" and "rack-to-rack" communications.

Driven by the exploding demand for online media and applications in a cloud computing environment, the modules are ideal solutions for communications within data centers, server farms, network switches, telecom switching centers and many other high-performance embedded applications that require high-speed data transfers. System applications include data aggregation, backplane communications, proprietary protocol data transfers, and other high-density/high-bandwidth applications.

"Avago is delivering the industry's highest optical port density resulting in the best bandwidth per dollar and the lowest power," said Sharon Hall, Product Line Manager at Avago Technologies. "No matter what a customer's high density optical interconnect specifications are, Avago has a solution and form-factor to meet their needs."

The stand-alone MiniPOD™ transmit and receive modules—the AFBR-81uVxyZ and AFBR-82uVxyZ, respectively, each contain 12 unidirectional channels (lanes) that can each transfer data at 10.3125 Gbits/s using 64b/66b encoding for an aggregate data rate of 120 Gbits/s for each module. The CXP pluggable edge-mount transceiver module (AFBR-83PDZ) is an integrated solution that contains 12 transmit and 12 receive lanes that operate at the same data transfer rates as the MiniPOD modules.

The MiniPOD modules deliver the highest front panel density in the industry with 36 times the density of standard SFP+ solutions. For users needing a pluggable solution, the CXP transceivers are one half the cost per 10Gbps lane compared to standard pluggable SFP+ solutions. Both MiniPOD and CXP solutions operate at 25% the power per 10Gbps lane compared to SFP+ modules. In addition, these optical components have superior jitter performance, high signal integrity, and low EMI emissions.

The MiniPOD optical modules and CXP transceiver can transmit data up to 100 meters using OM3 fiber, and up to 150 meters using OM4-grade fiber. All the optical components are compliant to the 100 Gbit Ethernet specifications: 802.2ba (100GBASE-SR10 and nPPI) as well as the QDR Infiniband standard and employ Avago VCSEL laser arrays operating at 850 nm for the transmitters and the company's PIN diode array for the receivers.

U.S. Pricing and Availability

The MiniPOD modules are available in two package options to support either flat ribbon or round fiber jumper cables. For designers interested in evaluating the CXP transceiver module, an evaluation board (AFBR-83EVK) is available and has a single-unit price of \$3500. In addition, an evaluation board for the MiniPOD modules (AFBR-800EVK) is also available and has a single-unit price of \$2500 each. In 100-unit sample quantities, the AFBR-81uVxyZ transmitter module and AFBR-82uVxyZ receiver modules sell for \$649 per transmit/receive pair. The AFBR-83PDZ CXP module sells for \$749, also in 100-unit sample quantities.

Further information on Avago fiber optics is available online at www.avagotech.com/fiber

Resources

The CXP Specification is downloadable from the InfiniBand Trade Association: http://members.infinibandta.org/kwspub/specs/register/publicspec/CXP_Spec_Release.pdf

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for wireless, wireline, and industrial applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics. Avago has a global employee presence and heritage of technical innovation dating back 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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