New Avago Technologies Transceiver Delivers Fast Ethernet Communication over Robust Plastic Optical Fiber Connectors

July 26, 2011

Small-Footprint Device Offers Reliable Data Transmission at up to 100 Mbps for Industrial Automation and Renewable Energy Applications

SAN JOSE, Calif. & SINGAPORE, Jul 26, 2011 (BUSINESS WIRE) --

Avago Technologies (Nasdaq: AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced a Fast Ethernet transceiver that provides reliable data transmissions over plastic optical fiber (POF). The new AFBR-5972Z transceiver provides the ability to implement fast communication up to 100 Mbps and is suitable for networking in harsh environments such as factory automation or power generation and distribution applications. Featuring a compact design using an Avago Versatile Link duplex connector, the transceiver reduces board footprint.

An extension of the proven Versatile Link connector series, the AFBR-5972Z transceiver eliminates the electromagnetic interference, crosstalk, and electrical ground problems that are common with copper wire solutions, while also providing easier, more flexible installation. The transceiver's new AFBR-4526Z duplex connector is similar in size to electrical RJ-45 sockets and is compatible with existing simplex Versatile Link connectors. In addition to the smaller size, the transceiver is more cost-efficient than comparable PROFINET industrial Ethernet standard connector solutions. Offering robust operation in the -40° to +85° C extended industrial temperature range, the device is suitable for industrial applications and supports various Ethernet Fieldbus protocols and is compatible with quasi-industry standard IEEE 802.3 100BASE-FX.

The AFBR-5972Z device's transmitter is based on a high-power, 650-nm LED with an integrated driver that operates at 3.3V. The transmitter receives a LVPECL/LVDS electrical input and converts it into a modulated current, driving the LED. The LVPECL digital interface enables a direct connection to Ethernet PHY ICs. The high-bandwidth receiver contains a PIN photodiode. The PIN photodiode is packaged in an optical subassembly that couples the optical power efficiently from POF fiber to the receiving PIN.

Additional AFBR-5972Z Product Features

- Link lengths up to 50m POF (NA0.5) or 70m POF (NA0.3)
- Lead-free and RoHS-compliant
- LVPECL signal detect output

U.S. Pricing and Availability

The AFBR-5972Z Fast Ethernet transceiver is priced at $24.18 each in 100 piece quantities. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. Avago provides a reference design for the implementation of the AFBR-5972Z transceiver, as well as an application note.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer 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, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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