



## Avago Technologies mini-SFP+ Optical Transceivers Increase Port Density for Storage and Ethernet Equipment

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### Two New Pluggable Modules Offer Industry's Smallest Form Factor for 8-Gbps and 10-Gbps; To be Demonstrated along with Market-Leading Embedded Parallel Optics Portfolio at OFC

SAN JOSE, Calif. & SINGAPORE, Mar 02, 2011 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced two new fiber-optic transceivers that enable increased port density in Ethernet and storage equipment. The new mini-SFP+ (mSFP) [AFBR-54D7APZ](#) transceiver addresses 8-Gbps Fibre Channel for storage applications and the [AFBR-703SNZ](#) transceiver targets next-generation 10-Gbps Ethernet equipment designs. Both pluggable modules increase port density by 30 percent over industry-standard SFP+ transceivers, while delivering the same data-transmission performance.

The mSFP transceivers incorporate Avago 850-nm Vertical-Cavity Surface Emitting Laser (VCSEL) and PIN detector technology, which insures the AFBR-54D7APZ module is compliant with 8.5/4.25/2.125 GBd Fibre Channel specifications and the AFBR-703SNZ module complies with IEEE 802.3ae 10GBASE-SR standards. The devices use the SFP+ electrical connector and I2C interface, and are compliant with the Small Form Pluggable (SFP) Multi Source Agreement (MSA) electrical specifications for duplex transceivers. The mSFP modules are designed for low power consumption with typical dissipation of 0.6W. Avago will demonstrate the mSFP transceivers, in addition to other high-speed optical fiber solutions, at the 2011 Optical Fiber Conference in booth number 2001 at the Los Angeles Convention Center from March 8-10.

"Avago is committed to innovating and partnering with customers to expand our leadership position in 8- and 10-Gbps SFP+ transceivers," said Victor Krutul, director of marketing for the Fiber Optics Products Division at Avago. "These new mSFP modules enable our customers to develop more efficient storage and Ethernet equipment with higher port density, and we are getting positive feedback from our lead customers." Avago recently exhibited a high-density DCX Backbone modular switch from Brocade that leverages the mSFP technology for 64 ports in a switching blade that could only house 48 SFP+ ports.

Avago has teamed with multiple cage and cable suppliers to provide complete 8-Gbps Fibre Channel and 10-Gbps Ethernet mSFP solutions. Avago optical transceivers offer unparalleled reliability, with not a single VCSEL failure in the millions of 8-Gbps and 10-Gbps modules the company has shipped to date.

#### Additional AFBR-54D7APZ and AFBR-703SNZ Product Features

- AFBR-54D7APZ achieves data rates of 8.5 Gbps for up to 150 meters using OM3 fiber and AFBR-703SNZ achieves data rates of 10 Gbps for up to 300 meters using OM3 fiber
- Enhanced EMI performance for high port density applications
- RoHS compliant and IEC 60825-1 Class 1/CDRH Class 1 laser eye safe
- Wide temperature and supply voltage operation (-10 to 80° C) (3.3V ± 10%)
- Full real-time digital diagnostic monitoring

#### U.S. Pricing and Availability

The Avago 8-Gbps AFBR-54D7APZ and 10-Gbps AFBR-703SNZ mini-SFP optical transceivers are priced at \$120 and \$180 each, respectively, in minimum quantities of 10. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners.

#### 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](http://www.avagotech.com).

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