Avago Technologies Announces Industry's Best GPS Front-End Module With Lowest Noise Figure for Mobile Applications

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Miniature GPS Front-End Module Integrates a Low Noise Amplifier with Pre- and Post High Rejection FBAR Filters in 3 by 2.5mm Package

SAN JOSE, Calif. & SINGAPORE, Mar 23, 2010 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced the expansion of its market leading ultra low-noise GPS front-end modules for mobile GPS applications. The ALM-2712, which has the lowest noise figure of any GPS filter-LNA-filter modules in the industry, integrates pre- and post-high rejection FBAR filters to provide superior performance. This integrated FBAR filter provides low insertion loss in GPS band frequencies and exceptional out of band rejection at cellular, DCS/PCS and WLAN band frequencies, making it an ideal device for use in simultaneous GPS (S-GPS), voice and data operations in today's mobile handsets.

S-GPS and other location-based GPS services used in mobile handsets require a high level of receiver sensitivity. Avago's ALM-2712 delivers a very low noise figure and high linearity performance which helps to significantly improve the sensitivity of the GPS receivers. By integrating the low noise amplifier (LNA), pre- and post high-rejection FBAR filters, and other RF matching components into the module, the ALM-2712 does not require any external RF matching components. As a result, it helps customers to simplify the design process, and reduce board space and component count in their applications. Moreover, the ALM-2712 has a built-in shunt inductor at the RF input pin to enhance ESD production, which allows the device to survive more than 3kV of Human Body Model (HBM) ESD charge at the RF input pin.

Avago's ALM-2712 GPS module is housed in a miniature 3.0 by 2.5 by 1.0 mm MCOB package and is ideal for use in space constrained applications. At a typical operating condition of 2.7V and 7.5mA, this GPS front-end module effectively leverages Avago's 0.25 um GaAs enhancement-mode pHEMT process and its leading-edge proprietary FBAR filtering technologies, to deliver a 1.26 dB noise figure, 14.2 dB gain, and + 5 dBm input third order intercept point (IIP3) and 89dBc/80dBc/72dBc of out of band rejection at cellular, DCS/PCS and WLAN band frequencies. These features combine to make the ALM-2712 an ideal solution to help enhance the performance of the GPS receivers used in mobile handsets and other GPS applications.

Features

- Miniature package with no external RF matching helps reduce board space and number of components required
- Very low noise figure: 1.26 dB typical
- Low external component count (only 2 bypass capacitors)
- Shutdown current: < 1 uA
- CMOS compatible shutdown pin
- ESD: > 3kV at RFin pin
- Adjustable bias current via single external resistor/voltage
- Advanced GaAs E-pHEMT and FBAR technology
- Halogen free
- Pb-Free and RoHS compliant

Pricing and Availability

Avago's ALM-2712 GPS module is priced at $1.44 each in 10,000 piece quantities. Samples and production quantities are available now through Avago's direct sales channel and 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 40 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com

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Safe Harbor Statement

This announcement and supporting materials may contain forward-looking statements which address our expected future business and financial performance. These forward looking statements are based on current expectations, estimates, forecasts and projections of future Company or industry performance based on management's judgment, beliefs, current trends and market conditions, and involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. Accordingly, we caution you not to place undue reliance on these statements. Avago Technologies Registration Statement on Form S-1, as amended, filed with the SEC on January 27, 2010 and other filings with the U.S. Securities and Exchange Commission ("SEC") (which you may obtain for free at the SECs website at http://www.sec.gov) discuss some of the important risk factors that may affect our business, results of operations, and financial condition.

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