



Avago Technologies Enables WiMAX to Coexist with Other Radios in Portable Devices with New High-Gain Linear Amplifier Module

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Small-Footprint, Fully-Matched Power Amplifier Exhibits Excellent Efficiency and High Linear Output Power for Handsets, Tablets and USB Dongle Applications

SAN JOSE, Calif. & SINGAPORE, Feb 16, 2011 (BUSINESS WIRE) --

Avago Technologies (NASDAQ:AVGO), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced a new linear power amplifier module for mobile and fixed wireless data WiMAX applications that include WiFi and other cellular radios. The new [MGA-22103](#) module features an aggressive gain shape that limits the noise injected into radio receivers co-located in the same device, enabling WiMAX to coexist with WiFi, GPS, PCS and other radios in handsets, tablets, USB dongles and other portable electronics.

The MGA-22103 linear power amplifier is cost-effective and meets industry-standard Spectral Emission Mask (SEM) tests operating at 3.3V. Covering a frequency range of 2.5 to 2.7 GHz, the power amplifier includes fully integrated RF matching. These features are integrated in a compact 3 mm by 3 mm by 1 mm package, allowing designers to achieve standards-compliant performance in space-constrained designs.

Leveraging Avago proprietary GaAs enhancement-mode pHEMT technology, the MGA-22103 module can be used for most high-linearity applications. With superior performance across a range of voltage and temperature levels, the module exhibits flat gain and good matching while providing linear power efficiency to meet stringent mask conditions. The MGA-22103 module meets the IEEE 802.16 WiMAX mask at over 25 dBm power, with high gain of 35 dB across the band. Additionally, a low power mode allows operation at approximately 80 mA when only minimal power is required.

Additional MGA-22103 Product Features

- Integrated CMOS compatible pins for shutdown and low power mode
- +25 dBm Linear Output Power
- 2.5% error vector magnitude (EVM) 16 QAM WiMAX Modulation at +25 dBm
- Stable under all loads and conditions
- Operating Temperature: -40 to +85°C

U.S. Pricing and Availability

The MGA-22103 linear power amplifiers are priced at \$2.20 each in 10,000 piece quantities. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. The module is available as part of the Sequans SQN1210 reference design for USB dongles. More information about the latest Avago WiMAX and WiFi power amplifier products can be found at: www.avagotechwireless.com.

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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