

Power Amplifier Supports all 3.5 GHz WiMAX Frequency Bands



Expanding its leadership in providing compelling power amplifier solutions for WiMAX communication equipment, ANADIGICS, Inc. today introduced a new power amplifier (PA) module designed for use in WiMAX Customer Premises Equipments (CPEs) and femtocells. ANADIGICS' new AWB7230 device is a fully-matched, multi-chip-module (MCM) that enables network performance across all the 3.5 GHz WiMAX bands.

The AWB7230 meets WiMAX spectrum mask requirements while delivering exceptional linear RF power, and can serve as the final stage amplifier in the transmit chain of either a CPE or femtocell. Covering the full 3.3 GHz to 3.8 GHz band, this device supports 3.5 GHz WiMAX networks worldwide, and also provides the highest level of power efficiency available for such applications. The AWB7230 complements ANADIGICS' AWB7221 PA, which was released last year to enable CPEs and femtocells operating in the 2.5 GHz WiMAX bands. With this latest PA, ANADIGICS now supports the two predominant sets of WiMAX frequency bands used around the globe.

“As WiMAX and other 4G technologies continue to emerge, ANADIGICS is responding to customer demands for high performance PA modules that enable exceptional consumer and infrastructure solutions,” said Joe Cozzarelli, Senior Director, Broadband RF Products, ANADIGICS. “With the AWB7230, ANADIGICS continues to expand its product portfolio and demonstrate industry-leading performance by providing wideband coverage at high linear power levels, and with best-in-class power efficiency.”

WiMAX CPEs provide an alternative to DSL and cable modems, and also play a key

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role in the transition to 4G, by offering consumers high speed wireless connectivity for their homes, shops or businesses. According to industry organization WiMAX Forum, nearly 600 WiMAX (fixed and mobile) networks have been deployed in 149 countries, with network coverage forecasted to be available to over 1 billion potential subscribers worldwide this year.

ANADIGICS' AWB7230 power amplifier is an optimal solution for current and next-generation WiMAX CPEs and small-cell base stations. Engineering samples are available now for qualified opportunities.

Key AWB7230 Facts and Highlights:

- Manufactured using an advanced InGaP HBT MMIC technology offering state-of-the-art reliability, temperature stability, and ruggedness.
- Delivers up to +29 dBm of WiMAX power with exceptionally low EVM.
- Provides more than 30 dB of RF gain.
- Operates with 16% power added-efficiency at rated output power.
- Supports all the 3.5 GHz WiMAX bands, from 3.3 GHz to 3.8 GHz.
- Incorporates RF matching networks optimized for output power, efficiency, and linearity in a 50 Ω system.

ANADIGICS will exhibit at the 2011 Mobile World Congress, February 14-17, in Barcelona, Spain. At the booth, ANADIGICS will demonstrate why advanced reference designs and leaders in mobile communication equipment are specifying ANADIGICS solutions in their 3G and 4G designs. Visit ANADIGICS' booth located at STAND2C19, HALL 2 or visit the Virtual Press Room for more information.

For more information, visit www.anadigics.com [1].

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