

Fairchild Semiconductor dual-band WLAN module

Building on its portfolio of WLAN power amplifiers, Fairchild Semiconductor has released the FMPA2151, a highly integrated dual-band WLAN power amplifier module optimised to increase performance and reduce PCB footprint in the latest 802.11a/bg WLAN applications, including notebooks, digital cameras and portable handsets. The high-performance FMPA2151 offers leading-edge 3.5% error vector measurement (EVM) at 20dBm output power, which helps to extend the wireless range in computing applications for worldwide Internet connectivity. The dual-band FMPA2151 saves designers up to 22%

board space by combining 2.4 and 5GHz power amplifiers into a single compact 4 x 4mm package.

For additional space savings, as well as enhanced reliability, the device provides built-in power detectors and digital PA on/off controls.

These application and design benefits aid designers by easing design complexity and accelerating time to market.

“WLAN computing designs increasingly demand more compact form factors and fewer peripheral components. The FMPA2151 module answers these requirements by

replacing two power amplifiers typically used in WLAN designs with one integrated dual-band device, therefore reducing component count and saving board space”, said Russ Wagner, General Manager of Fairchild’s RF Power Products Group.

“Our dual-band amplifier also facilitates easy Wi-Fi hookups over an extended range worldwide by allowing WLAN-enabled terminals to locate the best available frequency band. This is an important feature in the latest wireless notebooks offering worldwide Internet connectivity”.

For more details, visit:
www.fairchild.com

Cree, AWR offer MMIC process design kit

Cree, Inc. and Applied Wave Research, Inc. (AWR) announced a process design kit (PDK) supporting Cree’s high-power SiC process at the 2006 IEEE MTT-S International Microwave Symposium. It enables MMIC designers to use Cree’s MMIC process within AWR’s Microwave Office software environment.

Designers can now improve productivity by applying AWR’s industry-leading, open, and integrated design platform to Cree’s wide bandgap SiC MMIC foundry services and discrete products.

For more details, visit:
www.cree.com

Philips’ 3.8GHz base station for WiMAX

Royal Philips Electronics announced its LDMOS WiMAX line-up for base station solutions, which delivers up to 3.8GHz of performance over an 802.16e mobile WiMAX platform. Available immediately, the Philips Gen6 LDMOS solution enables the highest efficiency WiMAX in an LDMOS platform, offering users access to broadband communication anytime, anywhere.

Philips’ Gen6 LDMOS technology features enhanced RF performance, as well as unparalleled linearity and power gain. The new LDMOS WiMAX base station also offers high levels of system, requiring less energy to power the network infrastructure so that network operators can deliver next-generation WiMAX services and connectivity to consumers for less operational expenditure. For system architects, Philips provides a full suite of intuitive

development tools including software models and S-parameters, making it easy to design and integrate their solutions in the shortest time possible - so that integrators can save valuable time in bringing high-value services to market.

The company delivers a comprehensive solution for the emerging WiMAX standard, by also offering RF transceivers for 802.16e WiMAX. The Philips UXF234xx series is a set of fully integrated, low-power, dual conversion transceivers, which enable easy, robust and reliable broadband communication for mobile devices such as phones, PCMCIA cards, laptops and PDAs. Featuring ultra-low noise, high dynamic range and high linearity, the UXF234xx transceivers allow seamless handover between base stations.

For more details, visit: www.semiconductors.philips.com