



OPTICHRON®

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FOR IMMEDIATE RELEASE

Optichron® OP5000 Crest Factor Reduction IC Boosts Power Amplifier Efficiency to Reduce Costs of Wireless Infrastructures

Programmable CFR IC Can Also Combine with Optichron's Digital Pre-Distortion ICs to Provide Industry's Best Power Amplifier Efficiency

FREMONT, Calif. – December 3, 2007 – Optichron, Inc., a leader in signal linearization technology, today announced the OP5000 Crest Factor Reduction integrated circuit (CFR IC) that reduces the peak-to-average ratio (PAR) of communication signals across all protocols. Key OP5000 features include interpolation options and six programmable filters that are configurable on a channel-by-channel basis, allowing selective channel efficiency improvements while meeting the error vector magnitude (EVM) requirements of multi-mode operations such as WCDMA and HSDPA. PAR reduction allows designers working with data-centric technologies to improve the efficiency of costly power amplifiers (PAs) by allowing an increase in the operating point while maintaining spectral compliance. Designers can use the OP5000 CFR with the company's OP4400 family of fully integrated digital pre-distortion ICs (DPDs), a combined solution that improves linearity and efficiency to deliver the industry's best PA performance. Target applications include GSM, WCDMA, CDMA2000, WiMAX, LTE and point-to-point RF applications used in customer premise equipment (CPE) and high-end infrastructure equipment.

“Optichron's OP5000 offers designers a flexible, modulation-agnostic CFR solution that efficiently reduces signal PAR,” said Perry Constantine, chief executive officer of Optichron.

“The combination of the OP5000 CFR and the OP4400 DPD improves efficiency and

performance to best-in-class levels while enabling a more highly integrated RF system for lower cost. Optichron continues to expand our portfolio of signal optimization products with flexible solutions that enable designers to optimize their RF designs more easily and effectively.”

OP5000 Features

Reduced PAR allows designers to operate the PA in a more efficient operating range, gaining valuable headroom to sharply improve system power efficiency at a reduced cost. Key specifications and features of the OP5000 CFR include:

- Operation at up to 125 MHz to process up to 20 MHz of input signal bandwidth
 - Supports multi-carrier GSM, two-carrier WiMAX, and four-carrier WCDMA applications
 - Suitable for remote radio heads (RRH), customer premise equipment (CPE), basestation infrastructure, and repeaters
- Up to 6 dB PAR reduction for a WCDMA signal
- Six channels, each with a programmable error filter
- Seamless integration with the OP4400 DPD
 - 16-bit CMOS output interfaces easily with DPD
- Small footprint: 14 mm x 14 mm, 169-pin BGA package

OP5000 CFR Packaging, Availability and Pricing

The OP5000-125IBBG resides in a compact 169 pin, 1.0 mm ball pitch, 14 mm x 14 mm BGA package and operates over the full industrial temperature range of -40° to 85° C. It is lead-free and RoHS compliant. Samples will be available in the first quarter of 2008 and volume production is planned for the late first quarter of 2008. Unit pricing is \$38.00 at 100-unit volume.

About Optichron

Optichron, Inc., a leader in nonlinear signal processing technology, designs and manufactures integrated circuits that enable significant improvements in system-level cost:performance for communications applications. Optichron® proprietary linearization technology is the industry’s most efficient solution for correcting nonlinear distortion, a problem present in signal processing systems. Signal linearization gives system designers more headroom to implement faster, more efficient systems that cost less to build and operate. For more information and product details please visit www.optichron.com.

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