

NEWS RELEASE



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FOR IMMEDIATE RELEASE

Peregrine Semiconductor launches Global Positioning Platform Dual-band receiver offers unprecedented levels of monolithic integration

San Diego, California, June 8, 2004 -- Peregrine Semiconductor Corporation, a leading supplier of high-performance RF CMOS and mixed-signal communications ICs, today unveiled its PE8510x dual-band receiver core for industrial, military and space applications. Peregrine's extensive experience in these end-markets enables a proven GPS platform which offers improved dynamic range in harsh environments, ease of implementation and reduced cycle time.

The PE8510x dual-band receiver offers monolithic integration of multiple receivers from antenna in through processed bits out. Specific operational features include:

- Simultaneous operation of two or more complete receivers including VCOs, PLLs, A/Ds and digital processing without mutual interference
- Low voltage and low power, with 3.3 V operation (typ.)
- Fully integrated voltage-controlled oscillators
- On-chip regulators for supply isolation
- Use of digital step attenuators (DSAs) for increased linearity throughout the entire gain control range

Through its proprietary UTSi[®] RF CMOS silicon-on-sapphire process technology, Peregrine GPS devices enable optimal amplitude and phase-matching between receivers providing high anti-jam capabilities on a single die.

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“Digital implementation of the AGC loop provides very accurate control and signal level reporting without calibration tables,” explains Jim Cable, CEO of Peregrine Semiconductor. “The on-chip digital control loop does not require external loop capacitors, nor A/D or D/A conversions, and allows precise control of the bandwidth and hysteresis. Operation of this loop can be dynamically programmed through the baseband digital interface,” he added.

Further on-chip functional integration – including custom integer and fractional-N synthesizers, A/D converters, reference oscillator with external crystal and an interference doubler – results in a dramatic reduction in supporting components and PCB area.

The first-generation PE8510x devices are offered in ceramic or plastic packaging, including the 169-pin 11x11mm BGA package with 0.8mm ball pitch. Customers are encouraged to contact Peregrine Semiconductor San Diego, CA headquarters or one of its global sales locations for detailed technical information on Space/Military and commercial semi-custom product development support and pricing.

About UTSi[®] RF CMOS Silicon-On-Sapphire (SOS) Technology

UTSi[®] (Ultra-Thin-Silicon) RF CMOS is a proprietary, patented variation of silicon-on-insulator (SOI) technology. It is the first commercially qualified use of sapphire substrates with high yields and competitive costs. UTSi RF CMOS combines high-performance RF, mixed-signal, passive elements, nonvolatile memory and digital functions on a single device. Significant performance advantages exist over competing mixed-signal processes such as GaAs, SiGe BiCMOS and bulk silicon CMOS in applications where RF performance, low power and integration are paramount. Additionally, because UTSi SOS is fabricated in standard high-volume CMOS facilities, Peregrine products benefit from the fundamental cost effectiveness and high yields, scalability and integration of CMOS, while

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achieving the performance of SiGe and GaAs. And since sapphire is a near perfect insulator, UTSi SOS products can integrate high-quality passive devices directly into the IC, offering unprecedented levels of RF integration and cost effectiveness.

About Peregrine Semiconductor

Peregrine Semiconductor Corporation designs, manufactures, and markets high-performance communications ICs for the wireless, broadband cable communications, satellite and defense markets. The Peregrine product portfolio offers unprecedented levels of monolithic integration, afforded by its patented UTSi[®] RF CMOS silicon-on-sapphire process. The Company, headquartered in San Diego, California; maintains established design centers and operations in Chicago, IL; Aix-en-Provence, France; Sydney, Australia; and Tokyo, Japan. Additional information is available on the web at peregrine-semi.com. Contact Peregrine's worldwide distribution partner, Richardson Electronics (NASDAQ: RELL), for sales information at 1-800-737-6937.

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Peregrine Semiconductor is not affiliated with Peregrine Systems, a software company also based in San Diego, California.

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微波光电部专业代理经销高频、微波、光纤、光电元器件、组件、部件、模块、整机；电磁兼容元器件、材料、设备；微波 CAD、EDA 软件、开发测试仿真工具；微波、光纤仪器仪表。欢迎国外高科技微波、光纤厂商将优秀产品介绍到中国、共同开拓市场。长期大量现货专业批发高频、微波、卫星、光纤、电视、CATV 器件：晶振、VCO、连接器、PIN 开关、变容二极管、开关二极管、低噪晶体管、功率电阻及电容、放大器、功率管、MMIC、混频器、耦合器、功分器、振荡器、合成器、衰减器、滤波器、隔离器、环行器、移相器、调制解调器；光电子器件和组件：红外发射管、红外接收管、光电开关、光敏管、发光二极管和发光二极管组件、半导体激光二极管和激光器组件、光电探测器和光接收组件、光发射接收模块、光纤激光器和光放大器、光调制器、光开关、DWDM 用光发射和接收器件、用户接入系统光收发器件与模块、光纤连接器、光纤跳线/尾纤、光衰减器、光纤适配器、光隔离器、光耦合器、光环行器、光复用器/转换器；无线收发芯片和模组、蓝牙芯片和模组。

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