

# NEWS RELEASE



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## **Peregrine Semiconductor unveils PE4263 RF Antenna Switch**

**For the first time ever, CMOS directly connects to antenna in GSM handsets**

***UltraCMOS™ technology paves way for smallest ASM and more***

**San Diego, California, October 4, 2004** -- Peregrine Semiconductor Corporation, a leading supplier of high-performance RF CMOS and mixed-signal communications ICs, today announced the availability of the PE4263 SP6T RF antenna switch, the latest market-leading innovation in its expanding RF product portfolio. The PE4263 switch provides a unique, high-performance solution to the quad-band GSM handset Antenna Switch Module (ASM) market by offering high power at 41 dBm P1dB; high linearity of 65 dBm IP3; and monolithic integration of key elements including a control logic decoder and driver. This high-power device, developed on the Company's patented UltraCMOS™ process technology, advances the cellular phone industry past traditional roadblocks in performance and size, enabling new roadmaps to be drawn for next generation ASM designs. Today, for the first time ever, a CMOS-based IC can be directly connected to the antenna of a GSM handset. Early designs incorporating the PE4263 have been validated and production is ramping with global cellular handset market-leaders.

Peregrine's 50-Ohm PE4263 die provides superior performance, lower insertion loss, smaller footprint and higher integration to alternative pin-diode or pHEMT-based designs. This innovative 2.6V RF switch operates from 100 – 3000 MHz and provides many extraordinary features, including 1500 V ESD tolerance at all ports; no blocking capacitors; 45 dB of isolation; low insertion loss of 0.55 dB at 915 MHz; and fast switch settling time.

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## **ADD ONE/PE4263 RF Switch**

“Designers have long been constrained by the limitations of exotic IC technologies such as pHEMT used in the development of high-power, high-throw switch ICs. The fundamental advantages of the UltraCMOS process -- repeatability, reliability and RF monolithic integration -- allow Peregrine to engineer revolutionary devices like the PE4263. In fact, UltraCMOS is changing the way RF applications are designed,” stated Jim Cable, president and CEO of Peregrine Semiconductor. “This device delivers a simple, and profoundly different approach to solving the toughest high-power, high-throw cellular switching challenges,” he added.

The PE4263 is slated for high-volume production in multiple facilities, including those of Peregrine's strategic partner, OKI Electric Industry Co., Ltd. (Tokyo, Japan). The device is priced at \$0.60 ea. (10K units), and is available in die form (1.24mm x 1.2mm) from Peregrine and its global distribution partner, Richardson Electronics.

In today's mobile phone marketplace, GSM handset designs represent the highest volume and most competitive market (see also “*UltraCMOS™ technology enables advancements in Antenna Switch Module designs for GSM Handsets*”).

Peregrine is known for its high-performance RF CMOS IC products which are ideally suited for a wide range of market segments, including Wireless Infrastructure and Mobile Wireless; Global Positioning (GPS); Optical; Broadband and Military/Space applications. The Company's innovative CMOS process - UltraCMOS™ -- combines the RF, mixed-signal, and digital capabilities of any other CMOS process, yet tolerates the incredibly high power required for high-performance wireless applications.

### **About UltraCMOS™ Technology**

UltraCMOS™ mixed signal process technology is a proprietary, patented variation of silicon-on-insulator (SOI) technology. It is the first commercially qualified use of Ultra-Thin-Silicon (UTSi®) on sapphire substrates with high yields and competitive costs. Significant performance advantages exist over competing processes such as GaAs, SiGe, BiCMOS and bulk silicon CMOS in applications where RF performance, low power and integration are paramount.

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## ADD TWO/PE4263 RF Switch

### **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 Company, which recently moved its headquarters to a larger San Diego, California facility, 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 [psemi.com](http://psemi.com). Contact Peregrine's worldwide distribution partner, Richardson Electronics (NASDAQ: RELL), for sales information at 1-800-737-6937.

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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；光电子元件和组件：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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