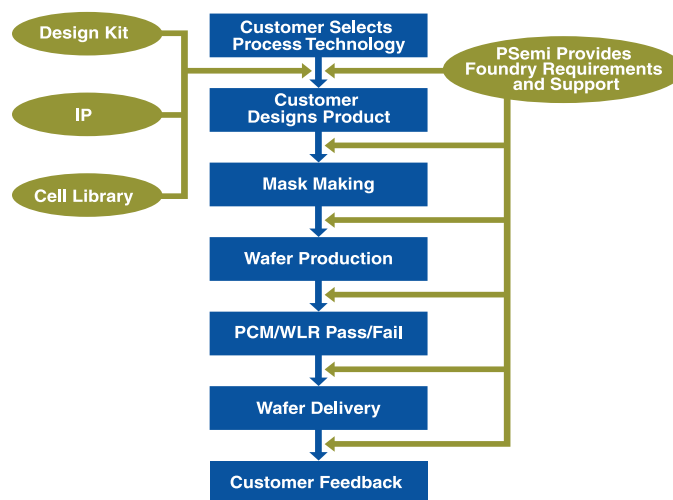


Peregrine's UltraCMOS™ RF and Mixed-Signal Wafer Foundry Services

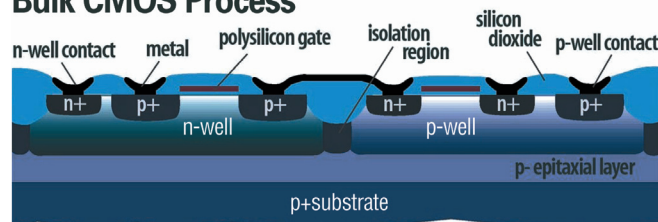
Unprecedented benefits in speed, power, integration and cost

The UltraCMOS process is a patented silicon-on-sapphire technology (SOS) that has for years been recognized as a technically superior semiconductor vehicle reserved for highly specialized military and space projects. SOS was thought to be impossible to manufacture in commercial volumes at a reasonable cost. Overcoming these challenges without sacrificing the inherent benefits of the technology took several years of research and development, all now protected by dozens of patents. The UltraCMOS process is the industry's first and only commercially qualified use of Ultra-Thin-Silicon (UTSi®) on a sapphire substrate enabling the combination of high-performance RF, mixed-signal, passive elements, nonvolatile memory and digital functions on a single device.

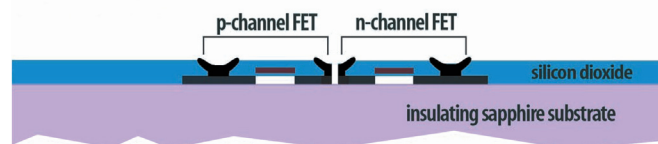


UltraCMOS™ vs Bulk CMOS

Bulk CMOS Process



UltraCMOS™ Process



This monolithic integration provides significant performance advantages 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 UltraCMOS devices are fabricated in standard high-volume CMOS facilities, products benefit from the fundamental reliability, cost effectiveness, high yields, scalability and integration of CMOS, while exceeding the peak performance levels historically expected from SiGe and GaAs.

FOUNDRY SERVICES

Our comprehensive portfolio of Process Design Kits, standard cell libraries, IP offerings and design services delivers leading-edge solutions for today's competitive RF wireless and broadband application challenges. For quick-turn prototyping service, we offer Multi-Project Runs (MPR) on a scheduled basis. This approach enables rapid, low-cost device evolution from design to limited or full production volumes. At Peregrine Semiconductor, our goal is to ensure customers achieve higher performance integrated circuits without a higher pricetag.

TECHNOLOGY FEATURES

Features Summary	Units	Process Variants						
		FA	FC	FD	FN	FO	GA	GC
Generation		0.5 um					0.25 um	
Release Status		Production					Pilot Production	
Application		Com/Auto/Mil			Rad-Hard		Com/Auto/Mil	
Supply Voltage	V	3.0/3.3					2.5	
Transistor Vts		3n/3p	3n/3p	3n/3p*	3n/3p	3n/3p	3n/3p	3n/3p
Resistors		2n/1p/1polycide					2n/1p/1silicide	
Interconnect Layers		3	3**	2	3	3**	3	3**
MIM Caps		No	Yes	No	No	Yes	No	Yes
Ft (IN Device)	GHz	15					30	
fmax	GHz	45					90	

MULTI-PROJECT RUN SCHEDULE

FA Process	FC Process	GA Process	GC Process	GDS Cut-Off Date	Tapeout Date	Delivery Date
			X	02/01/06	02/15/06	05/03/06
X		X		02/15/06	03/01/06	05/17/06
	X			03/15/06	03/29/06	06/14/06
			X	04/03/06	04/17/06	07/03/06
	X			05/15/06	05/29/06	08/14/06
			X	06/01/06	06/15/06	08/31/06
X		X		06/15/06	06/29/06	09/14/06
	X			07/14/06	07/28/06	10/13/06
			X	08/01/06	08/15/06	10/31/06
	X			09/15/06	09/29/06	12/15/06
			X	10/02/06	10/16/06	01/01/07
X		X		10/16/06	10/30/06	01/15/07
	X			11/15/06	11/29/06	02/14/07

By selecting Peregrine's UltraCMOS™ technology, you can count on our expertise and outstanding support throughout the entire foundry process.

FOUNDRY TURN-TIME

	Multi-Projects	Foundry
CAD Engineering	1 week	1 week
Mask Tooling	2 weeks	2 weeks
Fab Cycle	6 weeks	6 weeks
PCM/WLR/ Backgrind/Shipping	1 week	1 week
Dicing	1 week	Optional
TOTAL	11 weeks	10 weeks

FOUNDRY CONTACT INFORMATION

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About Peregrine Semiconductor

Peregrine Semiconductor Corporation designs, manufactures, and markets high-performance RF ICs ideally suited for mobile wireless and wireless infrastructure; broadband communications; space; defense and avionics applications. Manufactured on the Company's proprietary UltraCMOS™ mixed-signal process technology, Peregrine products offer unprecedented levels of monolithic integration, and are uniquely poised to meet the needs



of a global RF design community in high-growth applications such as WCDMA and GSM digital cellular, broadband, DTV, DVR and rad-hard space and defense programs. The Company, headquartered in San Diego, California, maintains global sales support operations and a worldwide technical distribution network.

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Changing how you design RF. Forever.

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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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