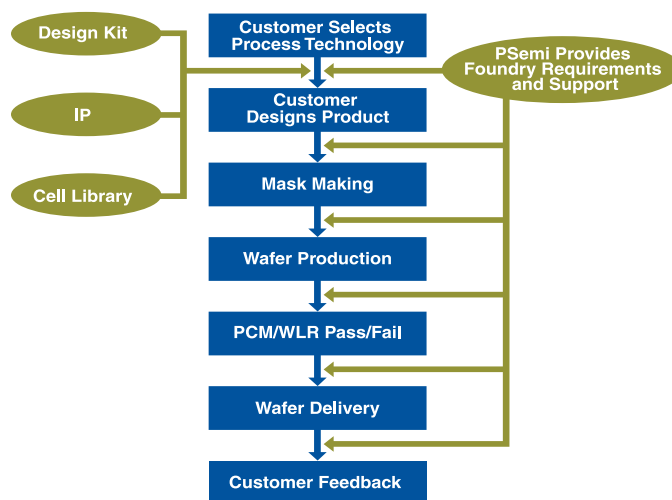


Peregrine's UltraCMOS™ RF and Mixed-Signal Wafer Foundry Services

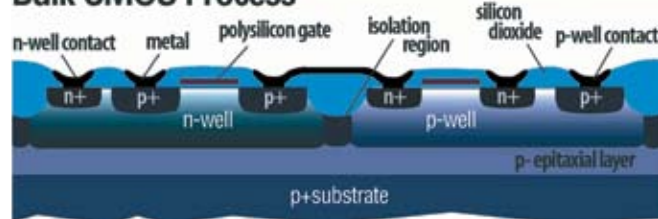
Unprecedented benefits in speed, power, integration and cost

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.

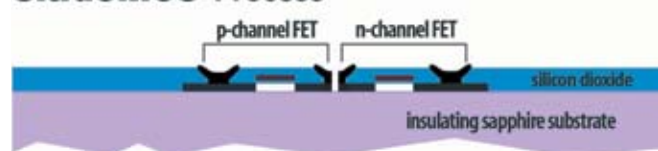


UltraCMOS™ vs Bulk CMOS

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 and IP offerings 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	GA	GC
Generation		0.5 um			0.25 um	
Release Status		Production			Pilot Production	
Application		Com/Auto/Mil			Com/Auto/Mil	
Supply Voltage	V	3.0/3.3			2.5	
Transistor Vts		3n/3p	3n/3p	3n/3p*	3n/3p	3n/3p
Resistors		2n/1p/1polycide			2n/1p/1silicide	
Interconnect Layers		3	3**	2	3	3**
MIM Caps		No	Yes	No	No	Yes
Inductors		No	Yes	No	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	12/1/2008	12/15/2008	3/16/2009
	X			1/15/2009	1/29/2009	4/30/2009
			X	2/2/2009	2/16/2009	5/18/2009
X		X		2/16/2009	3/2/2009	6/1/2009
	X			3/16/2009	3/30/2009	6/29/2009
			X	4/1/2009	4/15/2009	7/15/2009
	X			5/15/2009	5/29/2009	8/28/2009
			X	6/1/2009	6/15/2009	9/14/2009
X		X		6/15/2009	6/29/2009	9/28/2009
	X			7/15/2009	7/29/2009	10/28/2009
			X	8/3/2009	8/17/2009	11/16/2009
	X			9/15/2009	9/29/2009	12/29/2009
			X	10/1/2009	10/15/2009	1/14/2010
X		X		10/15/2009	10/29/2009	1/28/2010
	X			11/17/2009	12/1/2009	3/2/2010
			X	12/1/2009	12/15/2009	3/16/2010

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

FOUNDRY SERVICE TURN-TIME

CAD Engineering	1 week
Mask Tooling	2 weeks
Fab Cycle	8 weeks
PCM/WLR/ Backgrind/Shipping	1 week
Dicing	1 week
TOTAL	13 weeks

About Peregrine Semiconductor

Peregrine Semiconductor designs, manufactures, and markets high-performance communications RFICs. Manufactured on the Company's proprietary UltraCMOS™ mixed-signal process technology, Peregrine products are ideally suited for high-growth RF/Wireless applications such as WCDMA, EDGE and GSM digital cellular and mobile TV; broadband communications such as DTV/PCTV/DVR; and in high-reliability applications such as telecom infrastructure, industrial, automotive, military and satellite systems. Peregrine UltraCMOS devices are manufactured in world-class CMOS foundries located in Australia, Asia and Japan. The Company, headquartered in San Diego, California, maintains global sales support and a worldwide technical distribution network.



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Changing how you design RF. Forever.