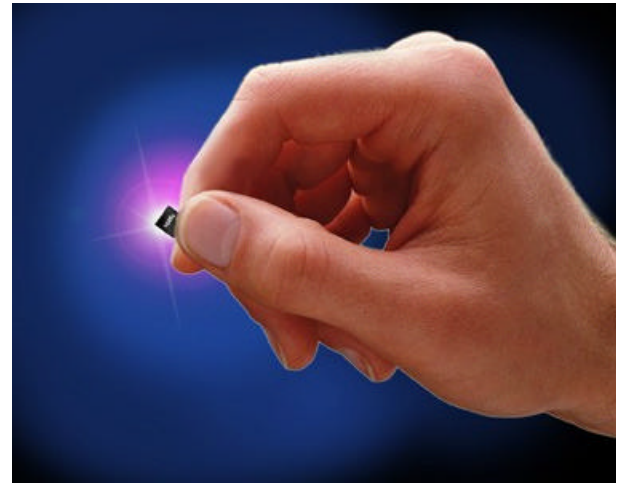


uN9x18

Low Power, High Performance GPS Receiver Chipset

PRODUCT FEATURES

- Low cost 12-channel GPS receiver chipset featuring the uN1008 RFIC and the uN8130 BBIC
- Ultra-low chipset power consumes less than 55mW during continuous GPS tracking at 1Hz rate
- High sensitivity receiver capable of A-GPS (IS-801 and 3GPP) acquisition as low as -151dBm within 16 seconds
- On-chip frequency synthesizer supports CDMA, GSM, and multiple GPS reference frequencies
- Orion navigation software package with development kit (SDK) allows product customization
- Extremely small size – available in CSP, BGA and QFN package options
- Available with integrated 8Mbit flash (uN2110 BBIC) and complete RF path (uN1510 RF)



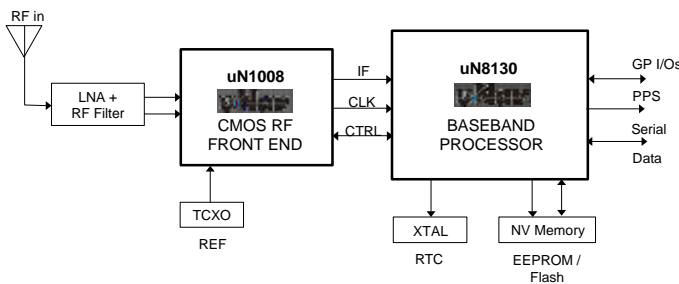
Advance GPS Navigation Solution

The u-Nav microelectronics uN9x18 is a complete CMOS GPS Receiver chipset solution. It features the uN1008, u-Nav's next generation ultra-low power RF Front-End and the uN8130, a highly integrated Baseband Processor that utilizes the power efficient VS_DSP processor core.

The uN8130 includes a state-of-the-art search engine with fast satellite acquisition based on u-Nav's QwikLock™ technology.

An array of twelve independent tracking correlators employing u-Nav's Zoom Correlator™ technology insure positioning even in severe conditions such as in urban canyons and under foliage.

The high level of integration, advance circuit design techniques, and innovative packaging minimizes external components and allows the uN9018 GPS Receiver system to be implemented in a surface mount component as small as 10x10x1.8mm.



uN9018 GPS Receiver System Block Diagram

uN9x18 GPS Receiver Solution

TECHNICAL SPECIFICATIONS

General

Tracking Channels	L1 (1.57542 GHz) 12
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Chipset Power

Sleep Mode	20 μ W
Tracking Mode	55 mW
Acquisition Mode	70 mW

Sensitivity

AGPS Acquisition (<16 sec.)	-151 dBm
GPS Acquisition	-140 dBm
Navigation	-148 dBm
Tracking	< -150 dBm

Accuracy

Horizontal Position	3 m (CEP)
Velocity	0.2 m/s (50%)

Time To First Fix (TTFF)

Quick Start / Re-acquisition	< 2 sec
Hot Start	8 sec
Warm Start	35 sec
Cold Start	45 sec

Voltage

RF, Baseband	1.8 V
I / O	1.8 V or 3 V

All chipset power measured at 1.8V.

CHIPSET OPTIONS

Chipset	RFIC	BBIC	Description	Chipset Area
uN9018	uN1008	uN8130	Standard chipset	65 mm ²
uN9118	uN1008	uN2110	Includes integrated stacked-flash (8Mbit)	89 mm ²
uN9518	uN1510	uN8130	uN1510 includes full RF path (LNA, SAW, matching)	84 mm ²
uN9618	uN1510	uN2110	Requires only the TCXO and RTC crystal	108 mm ²

For product availability and additional information, please contact your local u-Nav representative, or visit us at www.unav-micro.com. Corporate Headquarters telephone: +1(949)453-2727

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主要产品线:



U-blox 全系列GPS模块

U-blox GPS原装板卡/评估套件

U-blox GPRS模块



RISE-GPS系列u-blox GPS模块评估板
专业化成品GPS板卡



RISE-M系列GPS模块
大客户定制GPS解决方案



RISE 800MHz高速ARM11嵌入式CPU
支持DDR2代内存及H.264硬解压和2D及3D图形加速



MID及UMPC方案
PCBA方式及专业产品大客户定制模式



GPS电子罗盘成品
GPS导航仪, GPS电子警示器