



THE INDUSTRY'S HIGHEST PERFORMANCE GPS RECEIVER IN THE SMALLEST PACKAGE YET.

Hammerhead II delivers all the performance of its predecessor, Hammerhead, the world's first single chip, single die receiver, this time in a 3.5 x 3.7 x .6 mm Chip Scale Package for an even smaller PCB footprint.

Hammerhead II integrates a high performance AGPS baseband processor and a low-noise GPS RF front end. Hammerhead II comes packed with new software features such as advanced multi-path mitigation that avoid large errors in urban environments caused by reflected signal in buildings and other structures.

The mass adoption of AGPS in mobile devices sets high the bar high for a cost optimized solution delivering high performance in a super small package while drawing minimal power. Infineon and Global Locate continue to deliver industry firsts in the quest to meet the demanding requirements of mobile devices.

Hammerhead II is based on Global Locate IP and state-of-the-art Infineon RFCMOS Process Technology. This ground breaking chip is the key for enabling location-based services such as emergency assistance and personal navigation in deep urban canyons, in moving vehicles, and indoors.

Hammerhead II uses the proven host based architecture pioneered by Global Locate as the best fit for mobile devices as proven in mass market 2.5 G and 3 G devices shipping now. Global Locate host based architecture leverages some of the resources already existing in the mobile device without imposing a big CPU load (~ 3 MIPS) or any real time requirements. Hammerhead II uses standard serial communication interfaces with speeds as low as 38,400 bps. Global Locate's host based architecture yields the lowest system cost solution as well as the smallest footprint without compromising in performance.



KEY FEATURES AND BENEFITS

- Single chip solution (AGPS baseband & RF front end) minimizing board space footprint (< 50 sq mm² PCB area for a complete AGPS solution)
- Advanced low-power RFCMOS technology with smart power management allowing power consumption of less than 30 mW in low power tracking mode for the longest battery life
- Real-time hardware correlator engine (fast acquisition and high sensitivity)
- High sensitivity, -160 dBm, enabling indoor and deep urban operation
- Built in voltage regulators supporting single power supply source
- Multiple mode operation
 - MS-based (calculation of position in mobile handset)
 - MS-assisted (calculation of position in AGPS server)
 - Autonomous (no assistance by network)
 - Enhanced autonomous (position computed at mobile device using patented, multi-day long term orbits (LTO))
- Multiple protocol operation
 - Control plane (RRLP & RRC)
 - User plane (SUPL)
- AGPS control software does not disrupt call flow and is easily integrated into cellular processor
- Standard compliant (exceeds 3GPP performance requirements for 2.5 G and 3 G networks)





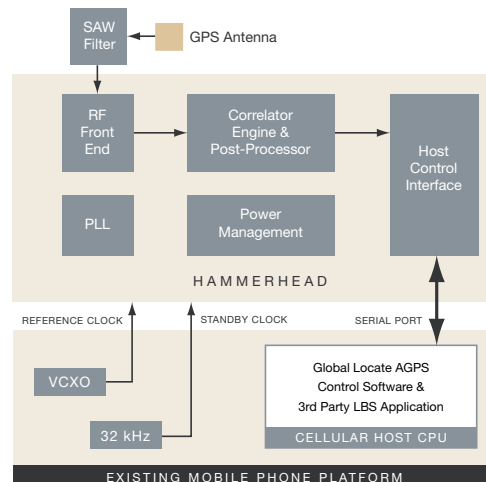
HAMMERHEAD II
SHOWN ACTUAL SIZE
Ø 3.5 x 3.7 mm

SPECIFICATIONS

- -160 dBm sensitivity
- Time-to-first-fix (mobile-based): 1 second @5 m accuracy (cold start, -130 dBm)
- 2 m steady state accuracy
- Supported reference frequencies of 10 – 40 Mhz
- Serial interface (SPI, I²C, UART)
- Assistance data standards support
 - UMTS/GSM: 3GPP TS 25.331 & TS 44.031
 - CDMA: 3GPP2 C.S0022-0-1
- 3.5 x 3.7 x .6 mm BGA package (RoHS compliance)

BLOCK DIAGRAM

- Cost optimized architecture for integration into mobile phones
- Both AGPS multi-mode control software and LBS (location based services) application executed on host CPU of cellular processor
- Serial host interface (UART, SPI or I2C)



DEVICES

- Mobile phones / Smartphones / PDAs / PNDs / Tracking

APPLICATION EXAMPLES

Personal Navigation Never get lost again in foreign cities. Your mobile phone is leading the way to your destination, whether you start indoors or outdoors.

Location Based Services Finding the way to points of interest simplifies your life. Take the short way to restaurants in your neighborhood, the nearest gas station or metro station, or play location games with your friends.

Emergency Assistance Hammerhead will enable mobile users to provide very accurate location information, both from indoors and outdoors, to emergency E911 / E112 services providers.

Friend-Finder and Child-Safety Staying in touch with friends and family is now an easy task by sharing your personal location.

For more information, please contact Global Locate at sales@globallocate.com or visit www.globallocate.com

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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