

APPLICATIONS

- LBS terminal providers
- Handset manufacturers

SiRFLoc Client

Multimode A-GPS Solution

PRODUCT OVERVIEW

It works anywhere with best-in-class performance, SiRFLoc® Client—the wireless location software solution that powers your in-network handsets and terminals. Providing all the benefits of top-notch SiRFstarIII™ location technology, the SiRFLoc Client 3GPP compliant solution allows you to meet the E911 mandate while supporting a wide range of location-based services. Flexible and reliable SiRFLoc Client pairs well with SiRFLoc Server or any standards-compliant location server.

GENERAL SPECIFICATIONS

Supported platforms

- SiRFstarIII
- SiRFstarIII IP-enabled baseband

Supported Protocols

- SUPL
- RRLP (GSM)
- RRC (3G)
- IS-801A (CDMA)

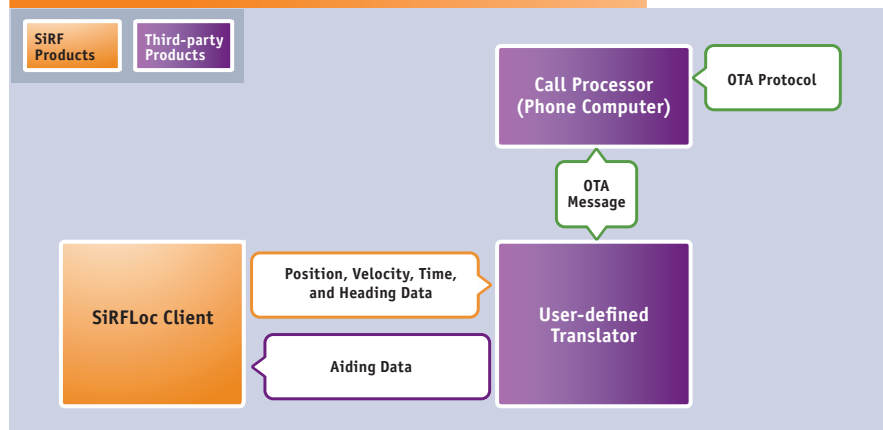
Supported Modes

- SiRF A-GPS Multimodes: Standalone, Autonomous, MS Based, and MS Aided

KEY FEATURES

- Premium, high-performance, patented Multimode A-GPS solution
- Supports SiRFstarIII GPS core
- Excellent sensitivity, -159 dBm, for indoor fixes
- One second TTFFs with better than 2.5 m accuracy
- Compatible with any network air interface type and location service protocol enabling location roaming
- Supports all major over-the-air protocols and standards
- Supported cellular networks: GSM, WCDMA, CDMA, TDMA, iDEN
- Advanced Power Management capability
- Support for SiRFInstantFix

SiRFLoc CLIENT WIRELESS DEVICE



TECHNICAL SPECIFICATIONS¹

Position Accuracy²

Horizontal <2.5 m

Velocity Accuracy³

Speed <0.01 m/s

Heading <0.01°

Time To First Fix⁴

Hot start - Autonomous <1 s

Warm start - Autonomous <35 s

Cold start - Autonomous <35 s

MS Based - GSM coarse time <0.6 s

MS Assisted - GSM coarse time <6 s

Sensitivity⁵

Autonomous acquisition -142 dBm

GSM / UMTS coarse time aided -155 dBm

CDMA precise time aided >-155 dBm

Tracking -159 dBm

Assistance Data Requirements

Frequency reference ±0.5 ppm

Time reference ±2 s

Approximate location within 30 km

Ephemeris aiding All visible satellites

1. Based on GSC3LT performance

2. 50% 24 hr static, -130 dBm

3. 50% @ 30 m/s

4. 50% -130 dBm Fu 0.5 ppm Tu ±2 s Pu 30 Km

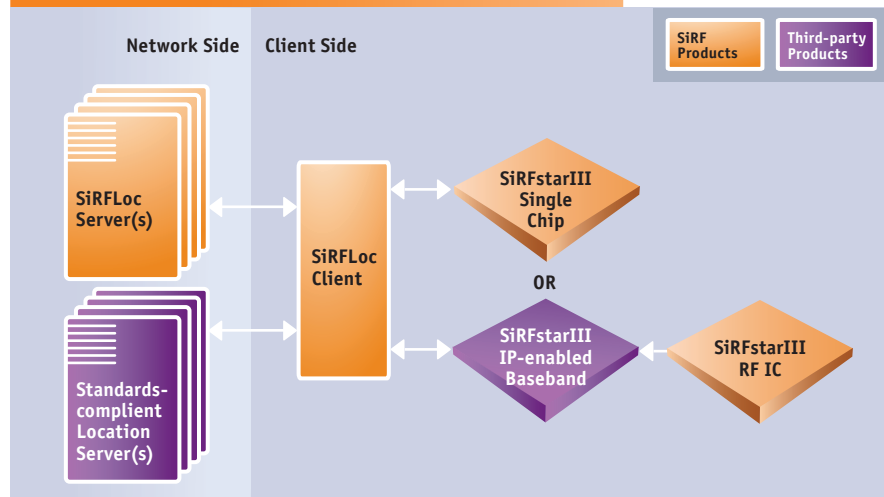
5. -142 dBm ≈ 28 dB-Hz with 4 dB noise figure

HIGHLIGHTED ADVANTAGES

SiRFloc patented architecture is designed to enable rapid testing and deployment of location services. All SiRFloc products utilize SiRF proprietary Multimode Location Engine™ technology, which adapts itself to the aiding capabilities of the network and enables mobile devices to get a position fix even when no aiding information is available. This provides the end user with basic position information even when network connectivity is unavailable.

LBS (Location Based Services) can provide emergency services, tracking assets and people, navigation services, and managing enterprise logistics. Network operators and third-party application service providers are rapidly adopting LBS to enhance their revenue growth potential by providing a wide variety of LBS products and services—enhancing the subscriber experience and lowering churn rates.

SiRFloc CLIENT CONFIGURATION



ORDERING INFORMATION

For information about purchasing this and related products, contact your SiRF representative, or call our sales force at (1) (408) 467-0410, or visit www.sirf.com.

For the location of your nearest authorized SiRF distributor, visit www.sirf.com.

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