

# SiRFloc™ Client

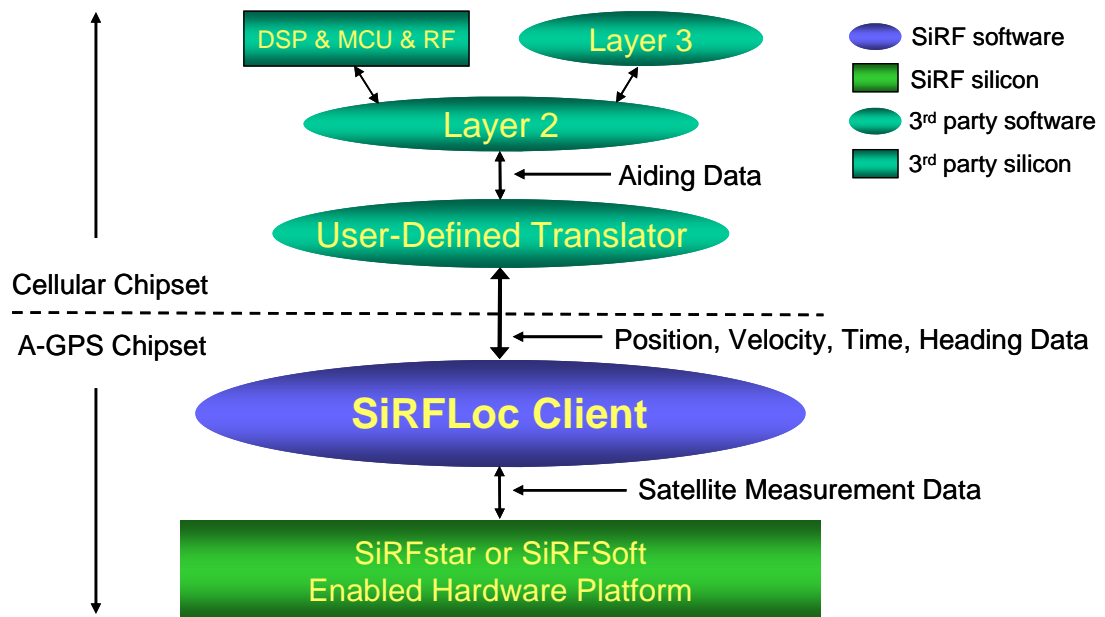
MultiMode Aided-GPS Software for Mobile Terminals



SiRF Wireless Solutions

## Product Overview

- MultiMode A-GPS software for mobile terminals supporting multiple positioning methods and adaptable to the aiding available in the network
- Provides position, velocity, time and heading output
- Runs on ARM7TDMI core in SiRFstarII and SiRFstarIII chipset platforms and on application processors when used with SiRFSoft platform
- Enables complete end-to-end A-GPS solution when used with SiRFloc Server



## Key Features

- 1 second Time-To-First Fix (TTFF) in urban environments with SiRFstarIII
- Accuracy better than 10 meters in urban environments with SiRFstarIII
- -159 dBm Sensitivity under hot start or fully aided condition with SiRFstarIII
- Supports SiRF's patented MultiMode Aided-GPS (A-GPS) technology
  - Standalone mode
  - Autonomous mode
  - MS-based mode
  - MS-aided mode
  - Call Processor Centric mode
- Supports major cellular standards – GSM, WCDMA, cdma2000, CDMA, TDMA, PDC
- Supports various location service protocols – RRLP, RRC, PDDM, IS-801, DLP, SLP
- Supports A-GPS positioning when used with other A-GPS servers
- Advanced Power Management provides four modes to ensure optimal power consumption in the system according to the current operating conditions

## Benefits

- Best-in-class performance for superior user experience in TTFF, Accuracy, and Sensitivity
- Compatible with any network air interface type and location service protocol enabling location roaming

## General Specifications\*

	SiRFstarII	SiRFstarIII
<b>Assistance data</b>		
Frequency reference	± 0.5 PPM	± 0.5 PPM
Time reference	± 0.5 seconds	± 0.5 seconds
Approximate location	within 30 km	within 30 km
Ephemeris aiding	for all visible satellites	for all visible satellites
<b>Receiver</b>		
Tracking	L1, C/A code	L1, C/A code
Maximum velocity	300 km/h	300 km/h
Sampling rate	16.368 MHz	16.368 MHz
Resolution	2 bits	2 bits
<b>Time-to-First-Fix, Aided Mode</b>		
Open Sky	< 10 seconds	1 sec
Urban Canyon	< 30 seconds	1 sec
<b>Unaided Position Fix (position fix within 2 hours)</b>		
All sats at -145 dBm	8 seconds	8 seconds
<b>Accuracy</b>		
Open Sky	5 meters	< 5 meters
Urban Canyon	10 meters	< 10 meters
<b>Maximum Sensitivity<sup>1</sup></b>		
Acquisition	-150 dBm (20 dB-Hz)	-155 dBm (15 dB-Hz)
Tracking	-154 dBm (16 dB-Hz)	-157 dBm (13 dB-Hz)
<b>Total Solution Footprint</b>	< 200 mm <sup>2</sup>	< 200 mm <sup>2</sup>

\* specifically for GSM/GPRS Coarse Aiding, 1xRTT/CDMA data available on request

<sup>1</sup> as measured at antenna (in brackets at correlator); assumes -4 dB loss between antenna and correlator

For more information, please contact your nearest SiRF representative, distributor or sales office or visit our web site at [www.sirf.com](http://www.sirf.com)

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