



# Software Version Description

**Subject:** SiRFstarIII GSW3.2.5 Version Description Document

Dear SiRFstarIII User:

SiRF is pleased to announce the release of GSW3.2.5 software for SiRFstarIII. This product includes the following changes and enhancements related to the previous baseline release, GSW3.2.4.

▶ **Enhanced Navigation Performance**

- Improved cross-correlation detection resulting in better position solutions by ignoring bad measurements
- Altered search strategy for improved weak-signal acquisition
- For versions prior to GSW 3.2.4, significantly improved positioning results, especially in transitional environments such as exiting a tunnel

▶ **Improved Jamming Mitigation**

- Better identification and dismissal of jamming signals through enhanced CW detection.
- Improved cross-correlation detection resulting in better position solutions by ignoring bad measurements

▶ **Improved Ephemeris Availability**

- Incremental ephemeris collection allowing quicker time-to-first-fix (TTFF) in environments where satellite signals are periodically blocked – such as highway underpasses
- Improved ephemeris collection under challenging dynamics – such as a runner’s swinging arm

▶ **Flexible Power Control**

- For implementations that include hardware “on/off” control, software can now be used to implement that functionality in addition to the traditional hardware control
- For implementations that do not include hardware “on/off” control, software can now be used to turn off the receiver

▶ **Flexible Choice of Flash Chips**

- Software will now periodically suspend writing to flash memory. This allows a wider variety of flash memory parts to be compatible with GSW software. (With previous releases, slower parts could take too long to complete a flash write operation which would interfere with the receiver’s tracking ability.)

▶ **Additional Note:**

- This software release does not support the original SiRFStar III 2-chip implementation (GRF3w-GSP3e).

Due to significant navigation improvements, we encourage all customers using GSW software prior to version 3.2.4 to adopt this latest release. For those currently using GSW 3.2.4, the decision to upgrade to 3.2.5 should be based on a client-by-client assessment of the benefits of slight navigation improvements, better ephemeris collection in challenging environments and hardware flexibility.