

Low-power Enhancements to Jupiter 30 and 32 Series GPS Modules



Navman (CA, USA) has reduced the power consumption of its Jupiter 30 and Jupiter 32 GPS modules by 35%. The new revisions of the Navman Jupiter 30 and 32 GPS modules now deliver maximum battery-powered operation along with renowned performance in reduced signal areas.

Based on the new SiRFStarIII GSC3 LP chipset, additional improvements include improved noise immunity; RTC, PLL and RF amplifier noise immunity; updated default almanac; improved SBAS acquisition and increased immunity to CW jammers on SBAS acquisition and overall improved signal acquisition and tracking.

The Navman Jupiter 30 and 32 both feature user-selectable, optimisable navigation modes including General Use, Automotive, Pedestrian and optimised Low Power modes designed to suit any application. The devices deliver indoor position fix and tracking capability of better than minus 159 dBm, and includes over 200,000 effective correlators for superior acquisition performance in the weakest signal conditions. These devices deliver acquisition fix performance of <1 seconds (hot start), 32 seconds (warm start) and 34 seconds (cold start). Jupiter 30 is housed in an industry standard 25.4mm x 25.4mm x 3.0mm form factor with a weight of 4.0 grams. The Jupiter 32 is the smallest GPS receiver available, sporting a tiny 15.0mm x 17.0mm x 2.7mm form factor and weighing a scant 2.0 grams. Its miniature footprint is ideal for applications where size matters. In addition, its low power requirements make it ideal for battery operated applications.

The Navman Jupiter 30 and 32 GPS modules are available in production quantities.

<https://www.gim-international.com/content/news/low-power-enhancements-to-jupiter-30-and-32-series-gps-modules>
