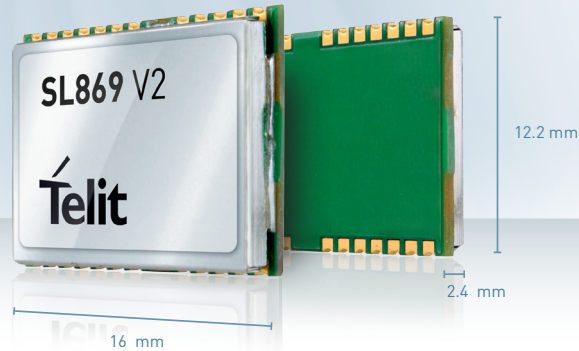


## ●● JUPITER SL869 V2 Series GNSS Standalone



### Product Description

The Jupiter SL869 V2 is a member of the SL869 family based on the low-power Mediatek MT3333. It features easy integration and superior battery-life performance. The receiver is designed for applications not requiring TRAIM or dead reckoning support; USB or CAN connection.

The SL869 V2 allows customers to design once, select and mount the JN3, SL869 or SL869 V2 depending on required features. It supports GPS, QZSS and Glonass and is ready for Galileo and Compass/Beidou. Two variants of the SL869 V2 simultaneously track GPS + Galileo and Glonass or GPS and Compass/Beidou. Position data is delivered using NMEA protocol through a standard UART.

The SL869 V2 can replace the JN3 or SL869 in device designs with the observance of a few simple application rules. It supports ephemeris file injection (A-GPS) as well as Satellite Based Augmentation System (SBAS) to increase position accuracy. Its onboard software engine is able to locally predict ephemeris three days in advance starting from ephemeris data broadcast by GNSS satellites, received by the module and stored in the internal Flash memory.

### Key Features

- Based on the Mediatek MT3333 core
- GNSS standards and bands supported: GPS L1, GLONASS L1, Galileo E1, Beidou B1
- 16 x 12.2 x 2.4 mm LLC package
- Supply voltage range: 3 - 3.6 VDC
- High RF sensitivity and Jamming detection/removal
- Assisted GPS
- 10 Hz Navigation, SBAS, 1PPS
- Ports: UART

### Key Benefits

- Multi-constellation allows accurate navigation in obscuring environments such as urban canyons
- AGPS by means of Extended Ephemeris injection as well as Extended Ephemeris on-board generation provides for faster TTFF
- Compatible with the JN3 and SL869 in popular 12 x 16 mm footprint industry standard

### Family Concept

The xL869 is Telit's GNSS Unified Form Factor family which allows customers to select among different GNSS technologies. Modules in this family are offered in a 16 x 12.2 mm, 24-pad, LCC package supporting GPS, GLONASS, Galileo, Beidou/Compass and QZSS constellations. Our positioning product portfolio is the result of over twenty years of experience in GNSS applications. Telit has developed a range of products compatible with the well-known GPS constellation as well as its Russian counterpart Glonass QZSS, and ready for Galileo and Compass/Beidou. Valuable features such as Dead-reckoning, Precision Timing, as well as speed and reliability ensured by simultaneous multi-constellation navigation, provide additional benefits to your application.

Your application development effort can also benefit significantly from the seamless integration between Telit's cellular and positioning modules. This bundling of cellular and positioning modules significantly reduces development complexity without adding costs. Multi-constellation positioning products applied together with our eCall / ERA-GLONASS compliant cellular modules can bring you ready-to-use emergency automotive tracking solutions for the European and Russian markets. Typical applications include fleet management systems, European GPS-assisted road tolling, cellular base stations, in-car navigation, automotive telematics, and GPS-based personal sports training monitors.

### Combine your GNSS module with

- Cellular modules



- Short Range modules



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ONE SHOP. NOW, INNOVATE!



## ●● JUPITER SL869 V2 Series GNSS Standalone

### Product Features

- Frequency Bands: GPS (L1), GLONASS (L1, FDMA), Galileo (E1), Beidou (B1)
- Standards: NMEA
- 99 Channel GNSS architecture
- Positional Accuracy (CEP50): 3 m
- Time To First Fix (@ -130 dBm)
  - Hot Start: 1 s
  - Cold Start: < 35 s
- A-GPS: local ephemeris prediction
- A-GPS: server predicted ephemeris
- Jammer rejection
- EGNOS, WAAS and MSAS

### Environmental

- Dimensions: 16 x 12.2 x 2.4 mm
- Weight: 1.8 g
- 24-pad LCC package
- Temperature Range
  - Operating temperature: -40 to +85°C
  - Storage temperature: -40 to +85°C

### Interfaces

- UART
- 1PPS for precise timing

### Electrical & Sensitivity

- Current
  - Acquisition: <30 mA (GPS+GLO)
  - Tracking: <25 mA (GPS+GLO)
  - Low power Nav: <15 mA (GPS+GLO)
  - Standby: <10 uA
- Power supply
  - VCC: 3.0 - 3.6 V
- Sensitivity
  - Acquisition: -148 dBm
  - Navigation: -163 dBm
  - Tracking: -165 dBm



### Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m community and exchange experiences.