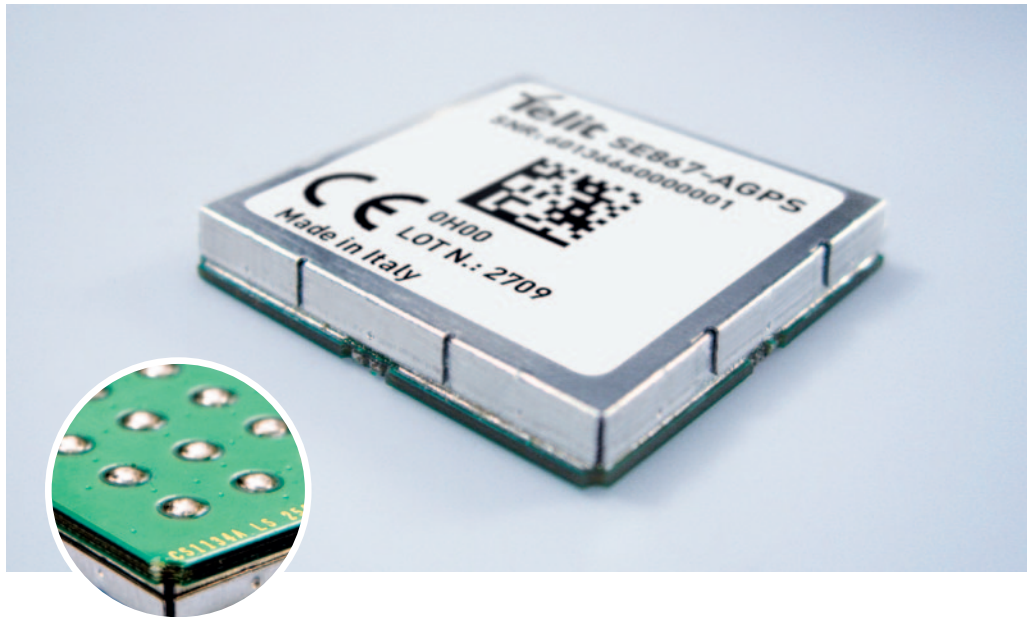













Satellite

SE 867-AGPS

GPS Standalone

Embedded



-  Ultra Compact
-  BGA Package
-  High Sensitivity
-  NMEA NMEA 0183
-  < 1m Position Accuracy
-  Low Power Consumption
-  WAAS, EGNOS and MSAS capable
-  44 Channel GPS Architecture
-  A-GPS
-  Ephemeris File Injection
-  RoHS Compliant
-  Extended Temperature Range

The new SE867-AGPS is the smallest module in Telit portfolio, and the first GPS standalone module featuring state-of-the-art GPS characteristics, with the high quality and great support that usually accompany Telit products.

The low profile and small size of the unique BGA package for the SE867-AGPS enable the design of extremely compact applications. Since connectors are eliminated, the solution cost is significantly reduced compared to conventional mounting.

With its ultra-compact design and extended temperature range, the Telit SE867-AGPS is the perfect module for high-volume m2m applications and mobile data devices.

Requiring only 2 layers for PCB design and little integration effort for external components, Telit SE867-AGPS represents the ideal solution in terms of total cost effectiveness and time-to-market readiness.

Equipped with a powerful yet power saving baseband processor, SE867-AGPS provides all the GPS information via NMEA standard protocol on serial interface.

Applications requiring extremely quick FIX can efficiently retrieve the correct position within two seconds, by means of assisted GPS and real-time ephemeris file injection.

As a part of Telit's corporate policy of environmental protection, all Telit products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

Product features

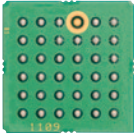
- Dimensions: 18 x 18 x 3.5 mm
- Weight: 1.8 g
- 35 balls BGA package, requiring only 2 Layer PCB
- Frequency Band: L1Band, C/A Code
- Standards: NMEA, 3GPP AGPS performance requirements
- 44 Channel GPS architecture
- Sensitivity
 - Autonomous Cold Start Acquisition: -144 dBm
 - Assisted Acquisition: -155 dBm
 - Autonomous Tracking: -160 dBm
- Flexible power supply
 - Wide range from 2.5 up to 4.2 V plus reference voltage for I/O (1.8 V, 3 V typ)
 - Multiple input power for enhanced power saving (1.8 V, 3.0 V typ)
- Positional Accuracy (CEP50): Autonomous Positional Error < 1.0 m
- Velocity Accuracy (30 m/s)
 - Speed: < 0.05 m/s
 - Heading: < 0.2 deg
- Time To First Fix (50% @ -130 dBm)
 - Hot Start: 1.3 s
 - Cold Start: <35 s
- Power consumption
 - Acquisition: 75 mW
 - Tracking: 65 mW
- RoHS compliant
- Temperature Range
 - Operating temperature: -30 to +85
 - Storage temperature: -30 to +85



SE867-AGPS

GPS Standalone

Embedded



actual size

Interfaces

- UART 4.8 – 230 k Baud Rate
- PPS for precise timing
- EGNOS, WAAS and MSAS capability embedded. Correction of positional errors due to ionospheric and orbital disturbances
- RTC for efficient power management

Approvals and Conformity Assessment

- CE mark
- IEC 60950 (2005)
- ETSI EN 300 440-2 (v.1.2.1)
- EN 301 489-3 (v.1.4.1)

Additional features

- A-GPS: ephemeris file injection

Order-No.

Please contact your Telit representative for order codes and all further information and additional details



Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Tel +39 040 4192 200
Fax +39 040 4192 289
E-Mail: EMEA@telit.com

Telit Wireless Solutions Inc.
3131 RDU Center Drive, Suite 135
Morrisville, NC 27560, USA
Tel +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail: NORTHAMERICA@telit.com

Telit Wireless Solutions Inc.
Rua Cunha Gago, 700 - cj 81, Pinheiros
São Paulo - SP, 05421001, Brazil
Tel +55 11 2679 4654
Fax +55 11 2679 4654
E-Mail: LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd.
9th Fl., Daewoo Securities Bld.
34-3 Yeouido-dong, Yeongdeungpo-gu
Seoul 150-716, KOREA
Tel +82 2 368 4600
Fax +82 2 368 4606
E-Mail: APAC@telit.com

www.telit.com

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