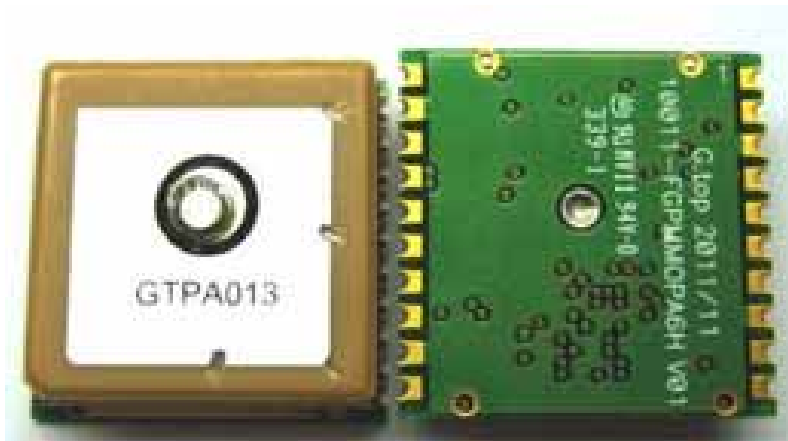


SPK ELECTRONICS CO., LTD.

SPK-GPSSM6H :GPS Module with Integrated Antenna in 2.5mm thickness.

SPK-GPSSM6H has a lower overall profile of just 4.7mm. This makes it easier for **SPK-GPSSM6H** to be more readily incorporated into any circuit board design for small form-factor devices. It supports up to 66 channels of satellites searching under -165dBm sensitivity, plus 10Hz maximum update rate for precise GPS signal processing under low receptive conditions. **SPK-GPSSM6H** is a low consumption GPS module (20mA at tracking and 25mA at acquisition).



Features

- MediaTek MT3339 Chipset, L1 Frequency, C/A code, 66 Channels
- Integrated Ceramic GPS Antenna with External Antenna I/O Support and Auto Switching
- Smart Antenna: Finely Tuned Ceramic Antenna
- Small Dimension, 16 x 16 x 4.7 mm; SMD
- High Sensitivity, -165 dBm, TCXO Design
- Position Accuracy: <3.0M 50% CEP
- DGPS (WAAS/EGNOS/MASA/GAGAN) Support
- Multi-path Compensation ; E-GSM-900 Band Rejection
- 2 UART (TTL)
- NMEA 0183 and PMTK protocol support
- E911, RoHS Compliance
- 1PPS: 10 ns RMS
- Multi-tone active interference canceller (MTAIC)
- Antenna Status Protocol support Software Solution

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SPK ELECTRONICS CO., LTD.

Software Solution

- AlwaysLocate (Advance Power Periodic Mode)
- AGPS support for Fast TTFF (EPO)
- Embedded Logger function (LOCUS)
- EASY

SPK-GPSSM6H GPS Module Specifications

Dimension:	16 x 16 x 4.7 mm, SMD type
GPS Solution:	MTK MT3339, 66 Channels
Frequency:	L1, 1575.42 MHz ; C/A Code
Sensitivity:	Acquisition -148 dBm Tracking -165 dBm
Position Accuracy:	Without aid: 3.0 m (50% CEP) DGPS (SBAS(WAAS,EGNOS,MSAS)): 2.5 m (50% CEP)
TTFF (Time to First Fix):	Cold Start: <35 Seconds (Typical) Warm Start: <33 Seconds (Typical) Hot Start: <1 Seconds (Typical)
Timing Accuracy (1PPS Output):	10 ns RMS
Protocol:	NMEA 0183
DGPS:	SBAS [QZSS, WAAS, EGNOS, MSAS,GAGAN]
AGPS:	Supported (Offline Mode)
Interface:	2 UART
Baud Rate:	4800 ~ 115200 bps
Update Rate:	1 ~ 10 Hz
Power Supply:	VCC: 3.0 V to 4.3 V VBACKUP: 2.0 V to 4.3 V
Current Consumption:	Acquisition: 25 mA Tracking: 20 mA
Working Temperature:	-40 °C to +85 °C