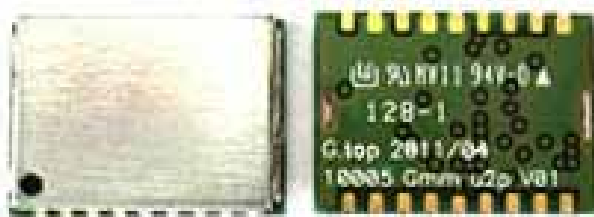


SPK ELECTRONICS CO., LTD.

SPK-GPSM2P

At a dimension of 9x12.7mm, **SPK-GPSM2P** is smaller than its previous generation predecessor. It is a high sensitive, incredibly low power consumption (15mA @ Tracking / 19mA @ Acquisition) GPS module. It utilizes MediaTek's fourth generation MT3339 single chip GPS technology that supports up to 66 channels of satellite searching with -165dBm sensitivity and 10Hz maximum update rate and many advanced software customization services!



Features

- MediaTek MT3339 Chipset, L1 Frequency, C/A Code, 66 channels
- Ultra-small Dimension, 9 x 12.7 x 2.1 mm; SMD
- Ultra-high Sensitivity, -165 dBm, TCXO Design
- Position Accuracy: <3.0M 50% CEP
- DGPS (QZAA/ WAAS/EGNOS/MASA/GAGAN)
- Multi-path Compensation ; E-GSM-900 band rejection
- UART (TTL) ; 1PPS Support
- NMEA 0183 and PMTK protocol support
- E911, RoHS Compliance
- 32KHz clock output (optional)
- 1PPS: 10 ns RMS
- Multi-tone active interference canceller (MTAIC)

Software Solution

- AlwaysLocate (Advance Power Periodic Mode)

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Add : 10F,NO.510,SEC.5,CHUNG HSIAO E. RD, TAIPEI,TAIWAN

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E-mail : spktw@ms34.hinet.net WEB:<http://www.spkecl.com>

SPK ELECTRONICS CO., LTD.

- AGPS support for Fast TTFF (EPO)
- Embedded Logger function (LOCUS)
- EASY

SPK-GPSM2P GPS Module Specifications

Dimension:	9 x 12.7 x 2.1 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 2D-RMS 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 [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: 19 mA Tracking: 15 mA
Working Temperature:	-40 °C to +85 °C