



SPK ELECTRONICS CO., LTD.

SPK-GPSM-4E60

GPS Module

Perfect Wireless Connection



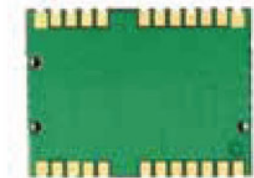
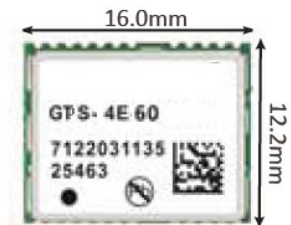
SPK-GPSM-4E60 is a new generation GPS receiver based on SIRF-IV chip. Using high performance framework, GPSM-4E60 has 48 parallel channels with higher sensitivity. Under the same chip specification, it has faster signal capture capability, lower power consumption, higher anti-interference and wider working voltage range.

SPK-GPSM-4E60 is specially designed for industrial application with compact appearance and SMT package. It can work normally in poor conditions such as high temperature, high humidity, EMI and so on. It's an ideal GPS platform for monitoring, positioning, mapping, navigation and security.

SPK provides you with SiRFLive tool free of charge. SiRFLive is a visualized platform for learning, evaluating and diagnose. It makes the development easier and shortens development cycle.

Product features

- Average Current Consumption: 33 mA
- Operating Voltage: 2.7~5.5 V
- 48-channel SIRF-IV engine
- Acquisition Sensitivity: -148 dB
- Tracking Sensitivity: -163 dB
- Operating Temperature: -40~+85 °C
- Hot Start: < 1 s
- Cold Start < 35 s
- Serial interface: Host I2C, UART
- Baud rate: Support 9600bps
- Size: 16.0 x 12.2 x 3.0 mm
- RoHS compliant





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SPK-GPSM-4E60 Performance

Parameter	Description	Performance			
		Min	Typ	Max	Unit
Horizontal Position accuracy(a)	Autonomous	—	<2.5	—	m
Velocity Accuracy (b)	Speed	—	<0.01	—	m/s
	Heading	—	<0.01	—	°
Time To First Fix (c)	Hot start: Autonomous (d)	—	<1	—	s
	Warm start: Autonomous (e)	—	<35	—	s
	Cold start: Autonomous	—	<35	—	s
	MS Based: GSM coarse time	—	<4.7	—	s
	MS Assisted: GSM coarse time	—	<4.7	—	s
Sensitivity	Autonomous acquisition	—	-148	—	dB
	GSM /UMTS coarse time aided	—	-148	—	dB
	CDMA precise time aided	—	-160	—	dB
	Tracking	—	-163	—	dB
	Navigation	—	-160	—	dB
Receiver	Tracking L1, CA Code	—	—	—	—
	Channels	—	48	—	—
	Update rate	—	—	1	Hz
	Altitude	—	—	<18288	m
	Velocity	—	—	<1000	knot
	Protocol support NMEA,OSP	—	—	—	—
Power (f)	Continuous tracking	—	99	—	mA
	TricklePower: 1 Hz (200:1)	—	13	—	mA

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