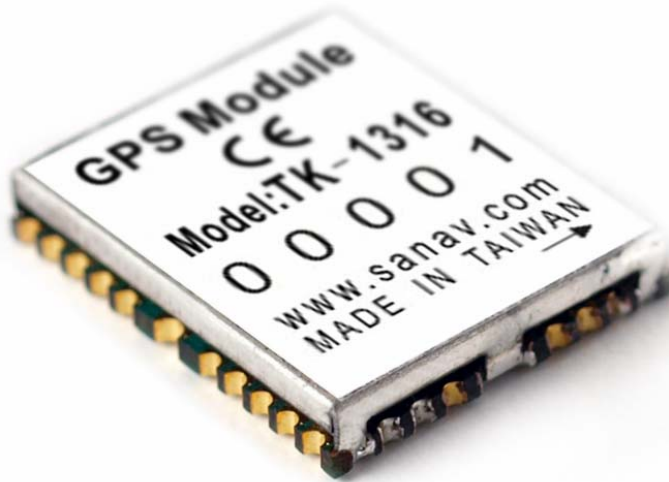




GPS Receiver

Model: TK-1316

Single-Chip GPS Receiver Series



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Introduction:

TK-1316 is designed to be applied as part of integrated system, which includes but not limited to PND (Personal Navigation Device), PVT (Position-Velocity-Time) system, GPS-mouse, GPS Bluetooth Receiver and complex wireless applications such as systems with GSM or GPRS transmission-enabled tracking devices. The TK-1316 GPS module is the best candidate for systems that requires stable performance, excellent start-up time, high sensitivity, low power consumption, positioning accuracy and/or compact size for placement.

Specification:

Physical construction		
Dimension	L15.9 x W13.1 x H2.5mm	
Weight	1 gram	
Receiving frequency	1575.42MHZ; C/A code	
Mounting	SMT type	
Construction	Full EMI shielding	
Environmental conditions		
Temperature	Operating: -30 ~ +85 °C	
	Storage: -40 ~ +85 °C	
Communication		
Protocol	NMEA0183 V3.00	
Signal level	UART @ 3.3V	
Interface capability		
Output Sentences	Standard: GGA, RMC, GSV, GSA, VTG	
	Option: GLL, ZDA	
Performance		
Sensitivity	-159dBm	
Receiver architecture	20 parallel channels	
Start-up time	Hot start	<5 sec
	Storage Temperature	45 sec
	Warm start	45 sec
Position accuracy (CEP 50)	Autonomous Position Error	1.5 m
Velocity	100 m/s (Maximum)	
Altitude	50 km (Maximum)	
Update Rate	1 Hz	
Power Supply	3.3V +- 5%	
Current Consumption	Acquisition: 50mA	
	Tracking: 50mA	
Baud Rate	9600 bps (default) & 4800/9600/38400/57600/ 115200 bps are adjustable	

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