


產品規格書

SPECIFICATION FOR APPROVAL

Model Name: GMS7-CR6(SIRF-IV)	Description: 48 Channel GPS Sensor Module
Product photos: 	
PRODUCT FEATURES: <ul style="list-style-type: none"> • 48 track verification channels • Tracking sensitivity -163dBm • Acquisition sensitivity -147dBm • Cold start < 34 seconds • 2.5m CEP accuracy • SBAS (WAAS, EGNOS) support • Support SAGPS function • Support 6 hours data logger. • Log data can be exported to mapping software such as Google Earth and TrackMaker • Logging data interval programmable: by time or distance • < 29mA with Tracking current <p>The GMS7-CR6 is a compact all-in-one GPS module solution intended for a broad range of Original Equipment Manufacturer (OEM) products, where fast and easy system integration and minimal development risk is required. The receiver continuously tracks all satellites in view and provides accurate satellite positioning data. The GMS7-CR6 is optimized for applications requiring high-performance, low cost, and maximum flexibility; suitable for a wide range of OEM configurations including handhelds, sensors, asset tracking, PDA-centric personal navigation system, and vehicle navigation products.</p> <p>The GMS7-CR6 is capable of keeping up to 6 hours records or positions, including longitude, latitude, speed, UTC, and tag data. The location histories can be exported to mapping software such as Google Earth or TrackMaker. Its 48 parallel channels and provide fast satellite signal acquisition and short startup time. Acquisition sensitivity of -147dBm and tracking sensitivity of -163dBm offers good navigation performance even in urban canyons having limited sky view..</p> <p>Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy. Besides it also supports A-GPS function and fixed in the short time. RS232-level serial interface are provided on the interface connector. Supply voltage of 3.3V~6.0V is supported. Users can modify NMEA sentences or Binary code by the extra flash memory.</p>	

GMS7-CR6(SIRF-IV)

TECHNICAL SPECIFICATIONS

Receiver Type	48 parallel channels, L1 C/A code
Accuracy	Position 2.5m CEP Velocity 0.1m/sec
Startup Time (Average)	< 34sec cold start
Sensitivity	-150dBm acquisition -160dBm tracking
Update Rate	1Hz standard (5Hz/10Hz special order)
Dynamics	4G (39.2m/sec ²)
Serial Interface	LVTTL level
Protocol	NMEA-0183 V3.01 GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, GPZDA 4800/9600/19200/38400 baud, 8, N, 1
Datum	Default WGS-84 User definable
Input Voltage	3.3~6V DC +/-10%
Power Consumption	< 26mA (1Hz standard version,tracking)
Dimension	20mm L x 20mm W x 9.2mm H
Weight	14g
Operating Temperature	-40oC ~ +85oC
Humidity	5% ~ 95%

PINOUT DESCRIPTION

Pin Number	Signal Name	Description
1	Ground	Power and signal ground
2	Power	3.3V ~ 6.0V DC input
3	Serial Data In 2	Asynchronous serial input at RS-232 level, to input command message
4	Serial Data Out 2	Asynchronous serial output at RS-232 level, to output NMEA message
5	Serial Data In 1	Asynchronous serial input at TTL level, to input command message
6	Serial Data Out 1	Asynchronous serial output at TTL level, to output NMEA message