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The Feature and Specification of GBT-709

Product Name : GBT-709



Feature:

- ✓SiRF Star III high performance and low power consumption chipset
- ✓20 channel all-in-view tracking channels for fast acquisition and reacquisition.
- ✓Compatible with Bluetooth devices with Serial Port Profile (SPP).
- ✓Built-in rechargeable Lithium ion battery without external power supply for about 12 hours in Scan Mode
- ✓Built-in rechargeable battery for memory and RTC backup and for fast Time To First Fix (TTFF).
- ✓Support NMEA0183 v2.2 data protocol or SiRF binary code.
- ✓FLASH based program memory. New software revisions upgradeable through serial interface.
- ✓Provide expand terminal and can contact to other system without Bluetooth devices.

Applications:

- ✓ Vehicle Tracing & Location Base Services
- ✓ PDA/Notebook Navigation
- ✓ Car Navigation
- ✓ Marine Navigation

Specification:

Item	Description	
Specification	<ul style="list-style-type: none"> • 20 channel all-in-view tracking • Receiver: L1, C/A code • Antenna Type: Built-in Ceramic patch antenna • Minimum signal tracked: -159dBm • On/Off switch : Slide Switcher 	
Position Accuracy	<ul style="list-style-type: none"> ✓ Non DGPS (Differential GPS) : <ul style="list-style-type: none"> • Position : 5 - 25 m CEP without SA • Velocity : 0.1m / sec • Time : 1 microsecond synchronized to GPS time 	
Acquisition Time	<ul style="list-style-type: none"> • Reacquisition 0.1 sec. averaged • Hot Start 8 sec. averaged • Warm Start 38 sec. averaged • Cold Start 42 sec. averaged 	
Protocol & Main Interface	<ul style="list-style-type: none"> ✓ Compatible with Bluetooth devices with Serial Port Profile (SPP) <ul style="list-style-type: none"> • Bluetooth™ version 1.1 compliant • Bluetooth™ Class 2 operation (up to 10 meter range) • Frequency : 2.400 to 2.480 GHz • Modulation: FHSS / GFSK • RF channels: 79 ✓ NMEA Protocol Output : V 2.2 (optional V3.0) <ul style="list-style-type: none"> Baud Rate : 38400 bps Data Bit : 8 Parity : N Stop Bit : 1 Format:GGA, GSA, GSV, RMC, VTG Optional : GGL, SiRF Binary 	
Dynamic Conditions	<ul style="list-style-type: none"> • Altitude : 18,000 m (60,000 feet) max • Velocity : 515 m/sec (700 knots) max • Acceleration : 4G • Jerk : 20 m/sec, max 	
Power	Operational Power	3.3VDC±10%
	Input Power	5VDC±10%

	Battery Source	Rechargeable and removable battery with 5V DC input charging circuit
Environment Conditions	<ul style="list-style-type: none">• Operating temperature : -20 ° to 60 ° C• Store Temperature: -20 °C to + 85 °C• Humidity : 5% to 95% Non-condensing	