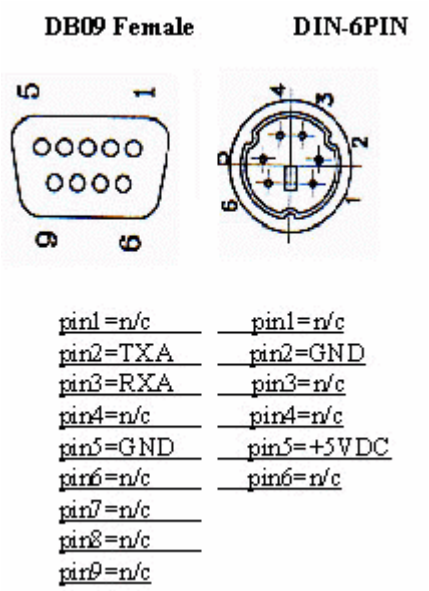
Mini GPS Locator

Model: GU-168



Pin assignment

DB-9 interface with RS-232 protocol

USB interface

Overview:

The main goal of GU-168 is to be used as a part of integrated system, which can be a simple PVT (Position-Velocity-Time) system, for instance, G-mouse, PND (Personal Navigation Device), or complex wireless systems, such as a system with GSM function, a system with Bluetooth function, and a system with GPRS function. The GU-168 can be the best candidate for users' systems as the users' systems need the careful consideration on the performance, sensitivity, power consumption, and/or size. In the specification of GU-168 at the next page, it is noticeable that in addition to excellent start-up times and position accuracy, the updated rate can be up to 10 Hz and the sensitivity of -1643dBm.

Features:

- Active antenna on board helps the system integrators to do the design-in easily.
- High sensitive GPS Locator and GPS antenna.
- The perfect match is most suitable for any mobile devices, such as PND, GPS PDA, personal tracker and any portable devices, which need GPS features.

Specifications:

PHYSICAL CONSTRUCTION			
Dimension	L58.5mm*W48mm*H15mm		
Weight	214 gram(with cable)		
Receiving frequency	1575.42MHZ & 1602MHZ		
Enclosure	Highly impact; corrosion-proof		
Mounting	Magnetic mount		
Construction	Full EMI shielding		
ENVIRONMENTAL CONDITIONS			
Temperature	Operating: -30 ~ +80 ℃		
	Storage: -35 ~ +85 ℃		
COMMUNICATION			
Protocol	NMEA, UBX binary		
Interface	RS-232, TTL		
INTERFACE CAPABILITY			
Standard Output Sentences	GGA, RMC, GSV, GSA, VTG, GLL Optional: ZDA		
PERFORMANCE			
Built-in Antenna	Highly-reliable ceramic patch		
Sensitivity	Tracking & Navigation	GPS & GLONASS -164 dBm	GPS -163 dBm
SBAS	WAAS, EGNOS, MSAS		
Receiver architecture	72 parallel channels		
Start-up time	 hot start cold start Aided start	GPS & GLONASS 3 s 41 s 4 s	GPS 3 s 41 s 3 s
Position accuracy*	Without aid: 2.5 CEP	SBAS: 2.0 m	
Velocity	500 m/s		
Altitude	50,000m (Maximum)		
Update Rate	1 Hz(default), up to 5 Hz with GPS & GLONASS , up to 10 Hz with GPS		
Power Supply	5V , 8-24V		
Power Consumption	Acquisition: 90mA, Tracking: 47mA		
Baud Rate	9600 bps (default) Optional:4800/19200/38400/115200 bps are adjustable		
POWER CABLE			
Length	5m		