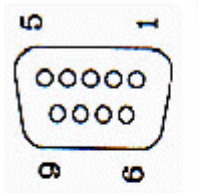


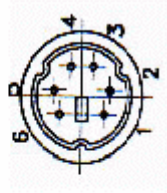
Mini GPS Locator

Model: GU-158

DB09 Female



DIN-6PIN



<u>pin1=n/c</u>	<u>pin1=n/c</u>
<u>pin2=TXA</u>	<u>pin2=GND</u>
<u>pin3=RXA</u>	<u>pin3=n/c</u>
<u>pin4=n/c</u>	<u>pin4=n/c</u>
<u>pin5=GND</u>	<u>pin5=+5VDC</u>
<u>pin6=n/c</u>	<u>pin6=n/c</u>
<u>pin7=n/c</u>	
<u>pin8=n/c</u>	
<u>pin9=n/c</u>	

Pin assignment



DB-9 interface with RS-232 protocol



USB interface

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Overview:

The main goal of GU-158 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 module (GU-158) 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 of the module. In the specification of GU-158 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 5 Hz and the sensitivity of -160dbm.

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	L46.2mm*W38mm*H16.1mm
Weight	214 gram(with cable)
Receiving frequency	1575.42MHZ; C/A code
Enclosure	Highly impact; corrosion-proof
Mounting	Magnetic mount
Construction	Ultrasonic welded, fully waterproof
ENVIRONMENTAL CONDITIONS	
Temperature	Operating: -30 ~ +80 °C
	Storage: -35 ~ +85 °C
COMMUNICATION	
Protocol	NMEA V3.01
Interface	USB 2.0, RS-232, TTL
INTERFACE CAPABILITY	
Standard Output Sentences	GGA, GLL, GSA, GSV, RMC, VTG
PERFORMANCE	
Built-in Antenna	Highly-reliable ceramic patch
Sensitivity	-160dBm
SBAS	1 channel (Support WAAS, EGNOS, MSAS)
Receiver architecture	32 parallel channels
Start-up time	3 sec. typical (hot start)
	35 sec. typical (warm start)
	41 sec. typical (cold start)
Position accuracy	Without aid: 3m CEP WAS: 2.6 m
Velocity	0.1 Knot RMS steady state
Update Rate	1 Hz(standard), Optional: Up to 5Hz
Power Supply	RS-232 @ 3~5V, USB @ 5V
Power Consumption	Acquisition: 59mA, Tracking: 33mA
Baud Rate	9600 bps (default)
	Optional: 9600/19200/38400/115200 bps are adjustable
POWER CABLE	
Length	5m

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Application Diagram: (UNIT 單位:mm, TOLERANCE 公差:0.3mm)

