Marine GPS Receiver & Locator

MODEL: GM62U

Small size and ruggedness, demand of vehicle locating and marine navigation GPS Receiver that will sustain harsh environment.



GM62U is a Mini Marine GPS receiver build-in well-known U-blox6 chipset. GM62U provides customer high position, velocity and time accuracy performances as well as high sensitivity and tracking capabilities. Customers benefit from the strength of both companies. Thanks to the low power consumption technology, the GPS-Mouse receiver is ideal for many portable applications such as PDA, Tablet PC, smart phone etc.

Features

u-blox 6 solution
50-channel GPS
SBAS (WAAS, EGNOS, MSAS, GAGAN)
GALILEO Ready
A-GPS
UART, USB interface supported
25.0 x 25.0 x 4.0 mm patch antenna
Wire-to-board connecter
RoHS compliant
Water proof IP67

Applications

Automotive
Personal/Portable Navigation (PDA)
Geographic Surveying
Sports and Recreation
Marine Navigation
Fleet Management
AVL and Location-Based Services

1.6 Sensitivity

1. Electrical Characteristics

1.1 Chipset u-Blox ublox6

1.2 General L1 1575.42MHz Frequency

> GALILEO Open Service L1 50 channels, C/A code

Channels, C/A code 1.3 Accuracy

Autonomous 2.5 meters

SBAS 1.4 DGPS Accuracy 2.0 meters

1.5 Acquisition Rate Reacquisition < 1 sec, typical Cold start 29 sec, typical Warm start

29 sec, typical Hot start <1 sec, typical Tracking -160dBm

1.7 Dynamic Condition 50,000 meters max. Altitude

Acquisition/Reacquisition

Velocity 500 meters /sec max.

1.8 Power Main Power 5.0 VDC +- 0.5%

Supply current

Tracking 75 mA Acquisition 95 mA

1.9 Serial Port Electrical interface **UART**

Protocols

NMEA-0183 8 data bits, no parity, 1 stop bits

4800 bps

-147dBm

GSV,RMC,GSA,GGA,VTG,ZDA

UBX (ublox proprietary) 57600 bps

Baud Rate 4800/9600/19200/115200

2. Environmental Characteristics

2.1Temperature Operating range -40 °C to + 85 °C

2.2 Mechanical dimensions LxWxH 60mm(Dia.) x 18.5mm(H)

Weight: 65grams (w/o cable & connector).

2.3 Interface I/O connector **UART**

RS232

2.4 CABLE UL2464/26Awg -0.5M-PS2(M) or 5M-M12(F) or ----2.5 Base mounting Bulkhead mount with 0.8 inch threaded wing nut (standard accessory)

2.6 Water Proof **IP67**

2.7 Color: Standard in ivory white, other colours available upon request.

All specifications are subject to change without notice

Standard:











BJTEK Navigation Inc.

BJT Optional toable:

5M

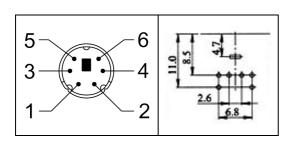




https://www.bjnav.com/ 15M



Pin Assignment of standard PS2 male Din Jack



Pin	Signal		
1	GND		
2	+5V		
3	N.C.(RS-232_Rx on demand)		
4	TTL_RX		
5	N.C.(RS-232_Tx on demand)		
6	TTL_TX		

Optional RS232 Interface cable & Power cable :

Model: GM62A Model: GM62B Model: GM62C



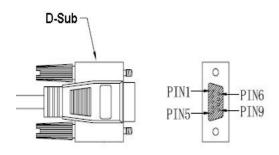




Power cable 12~40V to 5V



Pin Assignment of D-SUB 9 PIN Female connector



CKM9â∳ igation Inc. DB9(F) – RS232 & Power cable			GM62B	https://www.	bj 641/686 m/
			OPEN - RS232 & Power cable		DB9
PIN1	N.C	VCC 12~40V to 5V	Red	Vcc	VCC 5V
PIN2	RS232-TX		Green	RS232-TX	RS232-TX
PIN3	RS232-RX		White or Blue	RS232-RX	RS232-RX
PIN4	N.C.		Yellow	TTL - TX	N.C.
PIN5	GND	GDN	Orange	TTL - RX	GND
PIN6	N.C.		Black	GND	N.C.
PIN7	N.C.		Shielded wire	GND	N.C.
PIN8	N.C.				N.C.
PIN9	N.C.				N.C.

Output NMEA Messages

Table 3 NMEA-0183 V2.3 Output Messages

NMEA Sentence	Description		
GGA (default)	Global Positioning System Fixed Data		
GLL	Geographic Position - Latitude/Longitude		
GSA (default)	GNSS DOP and Active Satellites		
GSV (default)	GNSS Satellites in View		
RMC (default)	Recommended Minimum Specific GNSS data		
VTG (default)	Course Over Ground and Ground Speed		
ZDA (default)	Time and Date		