Marine GPS Receiver & Locator MODEL: GM65U

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



GM65U is a Mini Marine GPS receiver build-in well-known U-blox6 chipset. GM65U 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

Technical Specifications

1. Electrical Characteristics

1. Electrical Characteristics			
1.1 Chipset	u-Blox	ublox6	
1.2 General	Frequency	L1 1575.42MHz	
		GALILEO Open Service L1	
	Channels, C/A code	50 channels, C/A code	
1.3 Accuracy	Autonomous	2.5 meters	
1.4 DGPS Accuracy	SBAS	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	
1.6 Sensitivity	Tracking	-160dBm	
	Acquisition/Reacquisition	-147dBm	
1.7 Dynamic Condition	Altitude	50,000 meters max.	
	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	
		GSV,RMC,GSA,GGA,VTG,ZDA	
	UBX (ublox proprietary)	57600 bps	
	Baud Rate	4800/9600/19200/115200	
2. Environmental Characteris	stics		
2.1Temperature	Operating range	-40 ℃ to + 85 ℃	
2.2 Mechanical dimensions	L x W x H	60mm(Dia.) x 45mm(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.		
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All specifications are subject to change without notice

Standard :



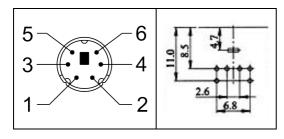
Optional Cable : 5M







Pin Assignment of standard PS2 male Din Jack

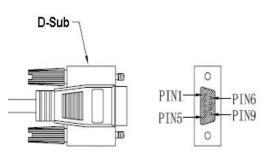


Pin	Signal		
1	GND		
2	+5V		
3	N.C.(RS-232_Rx on demand)		
4	TTL_RX		
5	N.C.(RS-232_Tx on demand)		
6	TTL_TX		

Optional RS232 Interface cable & Power cable :



Pin Assignment of D-SUB 9 PIN Female connector



GM62A		GM62B		GM62C	
DB9(F) – RS232 & Power cable		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

NMEA Sentence	Description		
GGA (default)	Global Positioning System Fixed Data		
GLL	Geographic Position - Latitude/Longitude		
GSA (default)	GA (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		

Table 3 NMEA-0183 V2.3 Output Messages