GM-77 is a GPS Mouse receiver build-in BJTEK Navigation Inc.

w ell-known SiRF StarIII GPS chipset. GM-77 p rovides 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

- ◆ Built-in high performance SiRF Star III low power chipset.
- ◆ Current consumption 40mA
- ◆ 20 channels parallel.
- ◆ Average Cold Start in 42 seconds.
- ◆ -159 dBm sensitivity in tracking mode
- ◆ NMEA0183 compliant protocol
- ◆ Extreme fast TTFF at low signal level

Applications

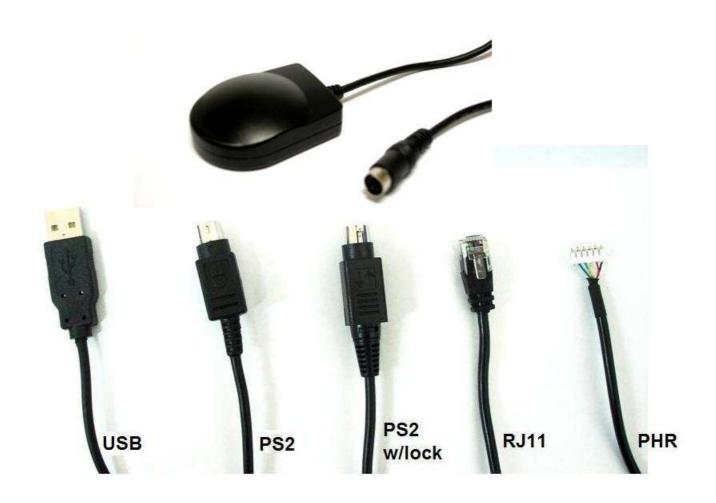
- Automotive
- Personal/Portable Navigation (PDA)
- Geographic Surveying
- ◆ Sports and Recreation
- Marine Navigation
- ◆ Fleet Management
- ◆ AVL and Location-Based Services

Specifications

BJTEK Navigation Inc.		https://www.bjnav.com/	
	General		Accuracy
GPS Chip	SiRF Star III LP chipset		Position
Frequency	L1, 1575.42MHz	10 meters, 2D RMS 7 meters 2D RMS, WAAS 1-5 meters, DGPS correc	
C/A Code	1.023MHz chip rate		0.1 m/sec
Channels	20 CH	Time	1ms synchronized to GPS time
			Datum
		WGS-84	
	Sensitivity	Dynamic Conditions	
To – 159Bm Tracking, Superior Urban Canyon Performance		Altitude	<18,000 m (60,000 feet)
Acquisition Rate		Velocity	<515 m/sec (1,000 knots)
Cold Start	42 sec, average	Acceleration	<4g
Warm Start	38 sec, average	Motional Jerk	<20 m/sec
Hot Start	6 sec, average		GPS Protocol
Reacquisition	0.1sec, average	Default: NMEA-0183,	
Accuracy	Snap start 2 sec, average	GGA(1), GSA(1), GSV	V(1), RMC(1),
Power		Band rate 9600 bps,	
Operation Power	3.5~5.0 VDC+10%	Data bit: 8, stop bit: 1	
Current Consumption	70mA		Device Size
	3.3V		
	Environmental		
Operating Temperature	- 20 °C to + 80 °C		No
Relative Humidity	5% to 95% non-condensing	Accessories	
	•	•	•

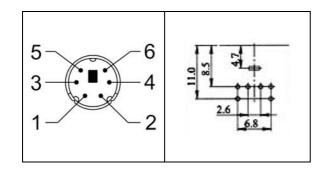
Hardware Interface

The GMB/7EKoNategation means in a unique style waterproof gadget. We datt pad home to suit your demands.



GM-77 Standard PIN OUT

Pin Assignment of standard PS2 male Din Jack (figure 1)



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	

BJTEK Navigation Inc.

https://www.bjnav.com/

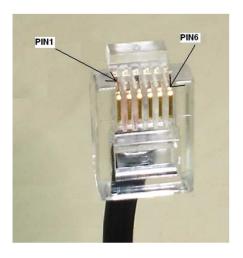
Pin Assignment of A Type USB connector (figure 2)





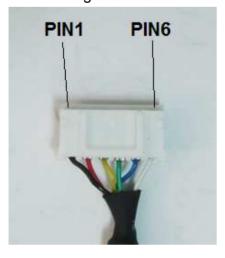
Pin	https://www.bjnav.c	om/
1	+5VDC	
2	D-	
3	D+	
4	GND	

Pin Assignment of RJ11 connector



Pin	Signal
PIN1	VCC 5V
PIN2	RX (RS232)
PIN3	TX (RS232)
PIN4	GND
PIN5	N.C.
PIN6	N.C.

• Pin Assignment of PHR connector



Pin	Signal
PIN1	VCC 5V
PIN2	RX (RS232)
PIN3	TX (RS232)
PIN4	GND
PIN5	N.C.
PIN6	N.C.