

Mini GPS Locator

Model: GM-48S

Extremely compact GPS locator with excellent software compatibility, providing real-time position fix via your palmtop/desktop PC or PDA.



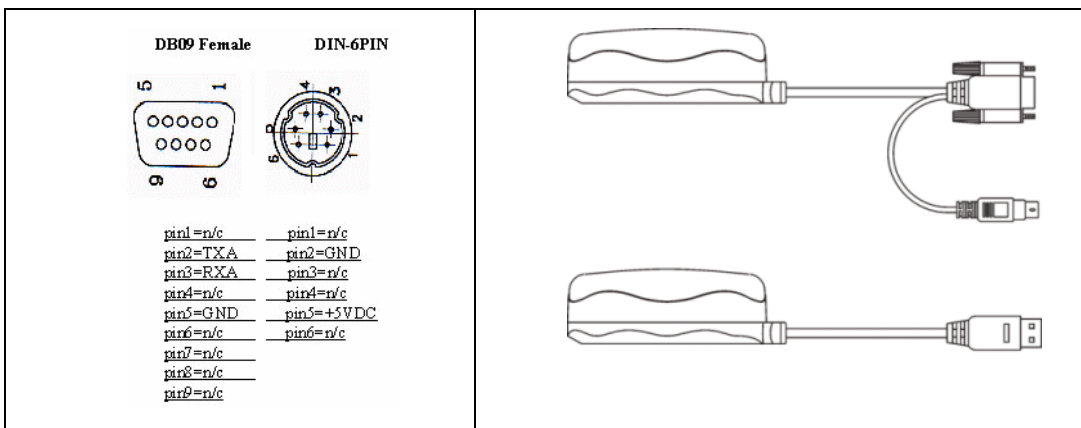
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Our GM-48S Receiver/Antenna comes up with the Plug-Navigate-Position, an innovative concept in mobile navigational GPS solution. When integrated with your computer, GM-48S provides you with real-time position fix for your vehicle, helping guide you to your destination. The GM-48S mobile locator is a low cost/ high quality GPS solution for AVL, Fleet Management System and Marine Navigational Aid.

The unit is a single GPS Receiver/Antenna in a low profile, waterproof enclosure with bolt mount. It interfaces to a RS-232 or a USB serial comm port of your computing device that utilizes NMEA 0183 data output sentences.

The GM-48S Mobile Locator provides real time GPS position, speed, distance travel and heading information in the NMEA-0183 format (such as GPRMC, GPGGA, GPGSV, GPGLL and GPGSA) to your portable PC, PDA or Palmtop.

Map software is available at Sunninghill Systems: <http://www.gpss.co.uk>.



Specifications

PHYSICAL CONSTRUCTION		PERFORMANCE		
Dimension	56mm (Diameter) x 28 mm (Height)	Built-in Antenna element	High-reliability ceramic patch	
Weight	85 grams ($\pm 5\% \sim 10\%$ or 10 ~ 20 grams) without cable	Sensitivity	-159dBm	
		SBAS	Support WAAS, EGNOS, MSAS	
Receiving frequency	1575.42MHZ, C/A code	Receiver architecture	20 parallel channels	
Enclosure	High impact, corrosion-proof	Start-up time	0.1 sec. typical (hot start) 35 sec. typical (warm start) 42 sec. typical (cold start)	
Mounting	Magnetic mount	Position accuracy	Without aid	10.0 m, 2D RMS
			DGPS (WAAS, EGNOS, RTCM)	5.0 m, 2D RMS
Construction	Ultrasonic welded, fully waterproof	Max. Velocity & Altitude	518 m/s; 18000m	
ENVIRONMENTAL CONDITIONS		Update Rate	1Hz	
Temperature	Operating: -30 ~ +75 °C	Power Supply	DC 5V from USB DC 5V from PS-2 DC 8V ~ 35V from cigar charger provided	
	Storage: -40 ~ +85 °C			
COMMUNICATION		Power Consumption	Acquisition	100mA
			Tracking	80mA
Protocol	NMEA(RS-232) NMEA , RTCM(USB)	Baud Rate	4800 bps	
Signal level	USB or RS-232			
INTERFACE CAPABILITY		POWER CABLE		
Standard Output Sentences	GGA, RMC, GSV, GSA	Length	5m	

San Jose Technology, Inc. may add other NMEA sentences to the standard output to maximize interfacing capabilities.