



## HI-206 Ultra High Sensitive GPS Receiver



## **HI-206** Ultra High Sensitive GPS Receiver

Mini size Waterproof Magneted

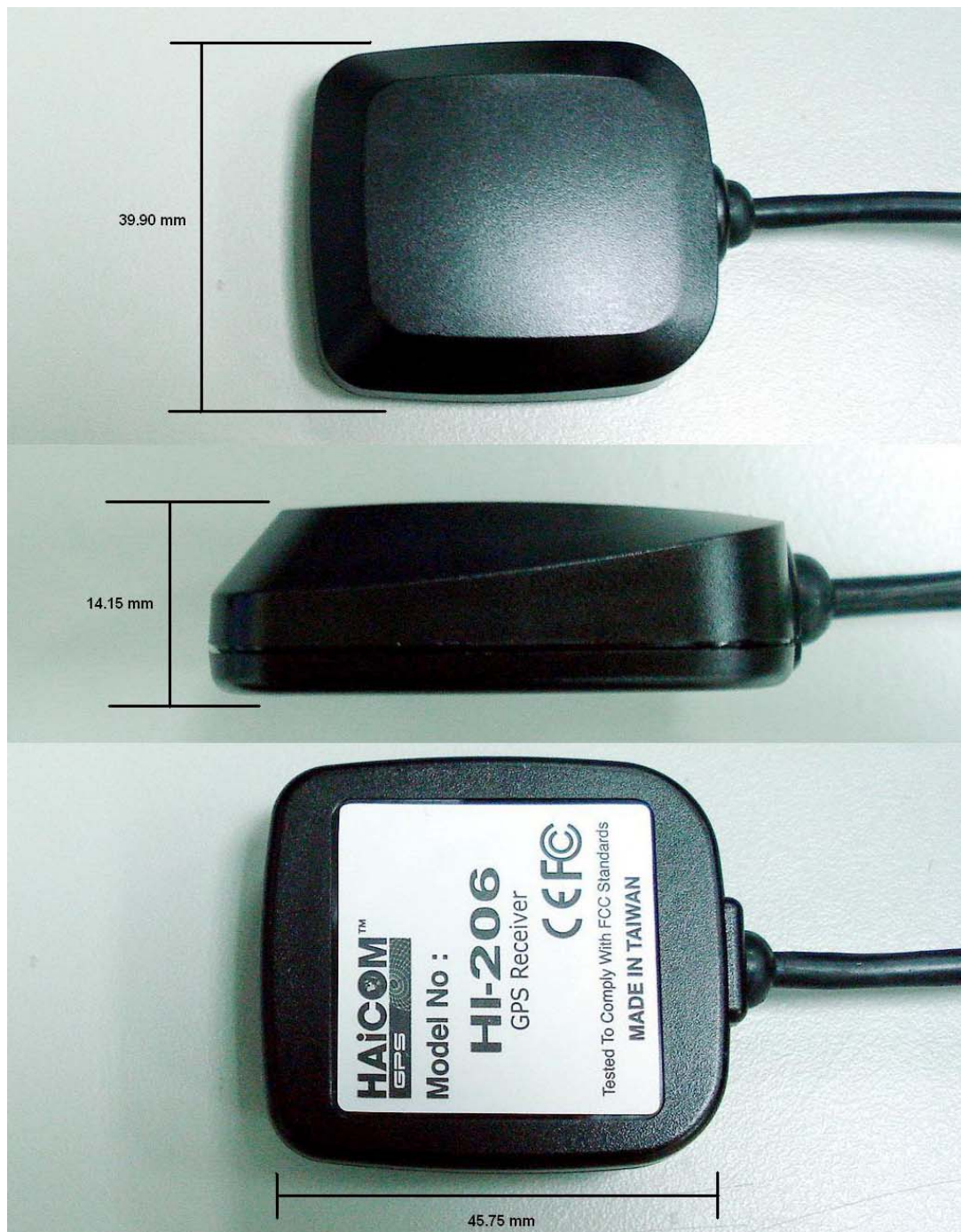
HI-206 is a GPS receiver with RS-232 interfaces and PS/II connector and built-in active antenna for high sensitivity to tracking signal. HI-206 is very small in size and well suited to system integration and users who use any kinds of mobile devices, such as, Smartphone, PDA, notebook PC, iPad, etc. It satisfies a wide variety of applications for car navigation, personal navigation or touring devices, tracking and marine navigation purpose. Users can simply plug it into a mobile device or other type of handheld PC running with suitable mapping and routing software for navigation.

Standard Package:

Before you start up, make sure that your package includes the following items. If any items are missing or damaged, contact your dealer immediately.

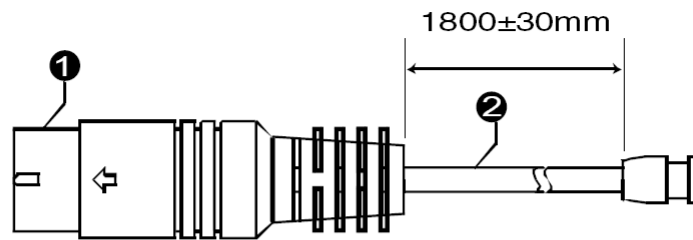
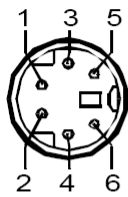
- HI-206 GPS Receiver unit
- User Manual CD (including User Manual, HaiTest Testing Program)

## MECHANICAL DIMENSIONS



## Pin Assignment

### Connectors



### PS/2 Connector

Color	Function	CN1
Yellow	TX	5
Orange	RX	4
Red	VCC	2
Brown	GND	1

① Mini Din: 6 pin male connector

② Wire:  $3.6 \pm 0.1 \text{mm}$

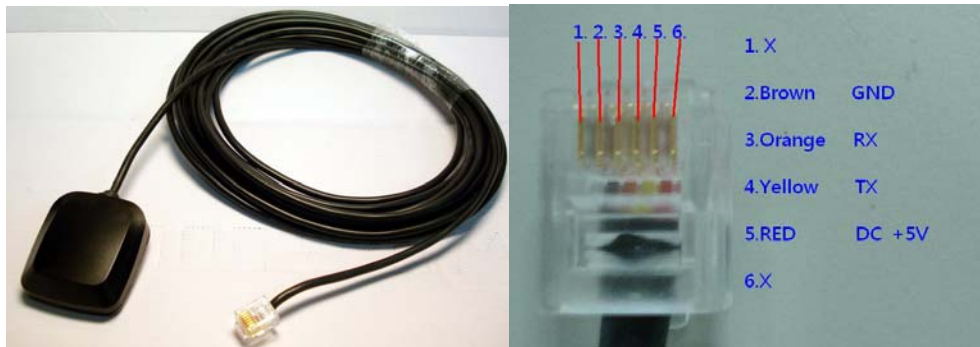
### Optional Accessories:

- PS/II to PDA connector and car charger
- PS/II to DB9 adapting cable
- PS/II to USB adapting cable

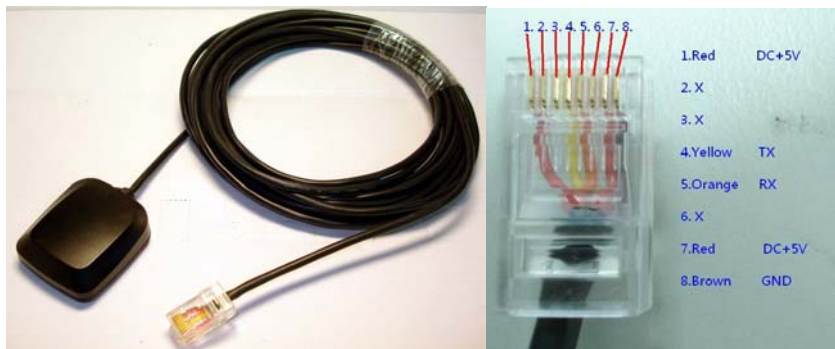


HI-206 with the RJ11, RJ45 or other special customized connector also available:

#### HI-206 RJ11



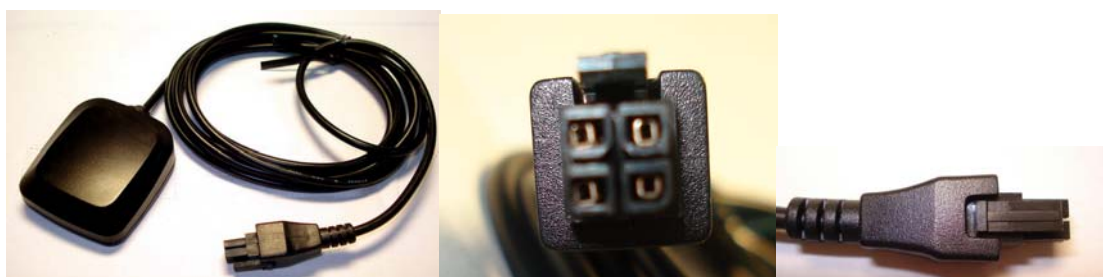
#### HI-206 RJ45



#### HI-206 PS2 5M



#### HI-206 Micro-Fit



**The pin out and wire length can be customized depend on the project.**

## OVERVIEW:

Fast Acquisition Enhanced Sensitivity 20 Channels “All-In-View” Tracking GPS Sensor Module. The receiver continuously tracks all satellites in view and provides accurate satellite positioning data. The HI-206III is optimized for applications requiring good performance, low cost, and maximum flexibility; suitable for a wide range of OEM configurations including handhelds, sensors, asset tracking, Smartphone, laptop-centric personal navigation system, and vehicle navigation products.

Its 20 parallel channels and 4000 search bins provide fast satellite signal acquisition and short startup time. Tracking sensitivity of -159dBm offers good navigation performance even in urban canyons having limited sky view. Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy.

Both the LVTTTL-level and RS232-level serial interface are provided on the interface connector. Supply voltage of 3.3V, or 3.6V~7V ( Typ. 5V ) are supported.

## FEATURES:

- 20 parallel channel GPS receiver
- 4000 simultaneous time-frequency search bins
- SBAS (WAAS, EGNOS) support
- -159dBm tracking sensitivity
- < 8 second hot start
- < 40 second cold start



## Technical Specifications

### Electrical Characteristics

	Items	Description
<b>Chipset</b>	GSP3F	SiRF StarIII technology
<b>General</b>	Frequency	L1, 1575.42 MHz
	C/A code	1.023 MHz chip rate
	Channels	20
<b>Accuracy</b>	Position	10 meters, 2D RMS
		5 meters 2D RMS, WAAS corrected
		<5meters(50%), DGPS corrected
	Velocity	0.1 meters/second
<b>Datum</b>	Time	1 microsecond synchronized to GPS time
	Default	WGS-84
	Other	selectable for other Datum
<b>Acquisition Rate (Open Sky &amp; Stationary Requirements)</b>	Reacquisition	0.1 sec., average
	Snap start	1 sec., average
	Hot start	8 sec., average
	Warm start	38 sec., average
	Cold start	42 sec., average
<b>Dynamic Conditions</b>	Altitude	18,000 meters (60,000 feet) max.
	Velocity	515 meters/second (1000 knots) max.
	Acceleration	4g, max.
	Jerk	20 meters/second <sup>3</sup> , max.
<b>Power</b>	Main power input	5V DC input.
	Power consumption	0.15 W (continuous mode)
	Supply Current	45 mA
	Backup power	3 V Lithium-Ion rechargeable battery
<b>Dimension</b>	45.75mm L x 39.90mm W x 14.15 mm H	
<b>Weight</b>	13 g	

### LED INDICATOR

LED ON	Signal Searching
LED flashing 1Hz	Position Fixed