

Bluetooth SlipperTM for GPS Receiver

HI-401BT

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

To assure continued FCC compliance:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Label Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

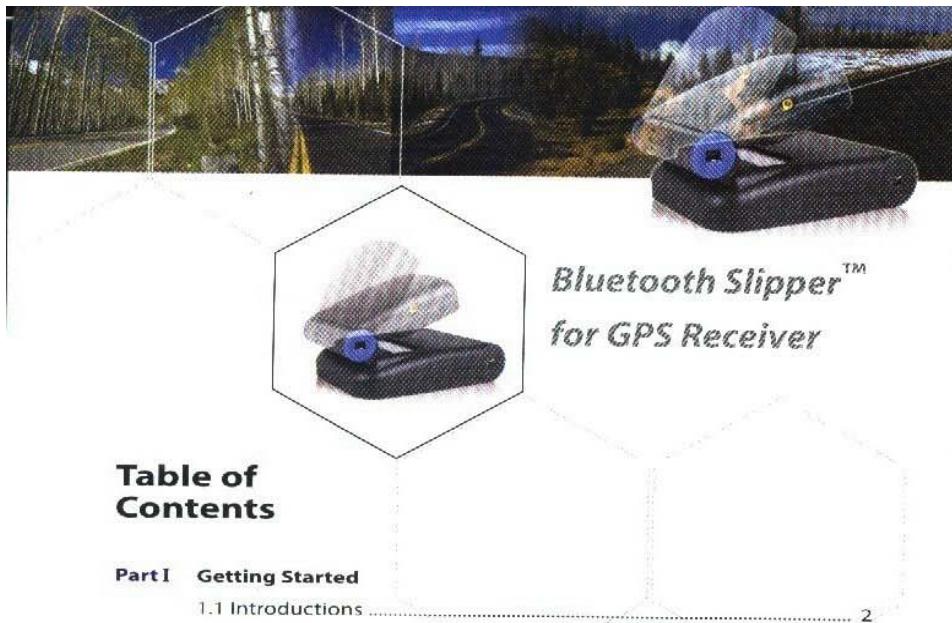


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1. Getting Started

1.1 Introductions

The Bluetooth Slipper™ for GPS receiver is a Bluetooth cradle or docking station of the GPS receiver to transfer the GPS data wirelessly to the host devices, like, notebookPC, PocketPC, Smart Phone, TabletPC, etc. Simply insert the CompactFlash™ interface of the multi-mode foldable GPS receiver into the Bluetooth Slipper™, the two units become a Bluetooth GPS receiver while the GPS receiver receiving the satellites signal and the Bluetooth transmit the GPS data to the mobile device. It'll be a perfect tool for all kinds of global positioning applications, such as, in car, marine, aviation navigation, outdoor activities, places finding, etc. without the wire allover.

1.2 Bluetooth Slipper™ Advantages:

- Modulize concept:** The multi-mode foldable GPS receiver can be used independently. (please see user manual for the multi-mode foldable GPS receiver)
- Place on right place:** The metal plate on the bottom of the Bluetooth Slipper™ can be attached to the car holder with magnetic. The Bluetooth GPS receiver can be either placed on the back window of the car or on the front windshield Or, with belt clipper, user can clip the BTslipper on the belt and get the best satellite reception in best angel.
- Switchless design:** To turn on the Bluetooth Slipper™, simply insert and connect the CompactFlash™ part into the CF™ slot and turn off by disconnect the CF™ interface from the CF slot.
- Changeable battery:** User can change the spare battery like mobile phone without interruptting the GPS positioning.
- Multi-function Connector:** The function of the mini-1394 connector on the side are: a) Charging the battery in the Bluetooth Slipper™, b) Solar panel power add, c) Data Logger module.
- Adjustable GPS antenna:** The multi-mode foldable GPS receiver on the Bluetooth Slipper™ can be adjusted in different angle to get the best satellite receptions.
- Long Lasting Battery:** It lasts more than 8 hours for the standard battery. With the solar panel add, the battery can stay active for more than 12 hours depend on the sunlight.





BT Slipper™ with Multi-Mode Foldable GPS Receiver

Unit: mm



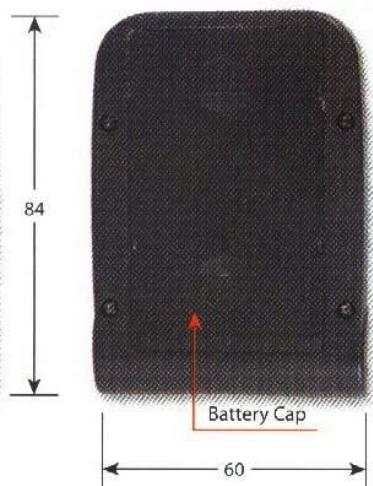
2. Dimensions

Top View

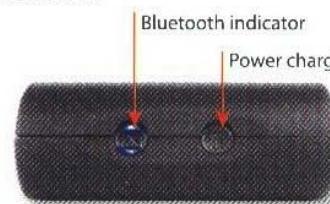


Unit:mm

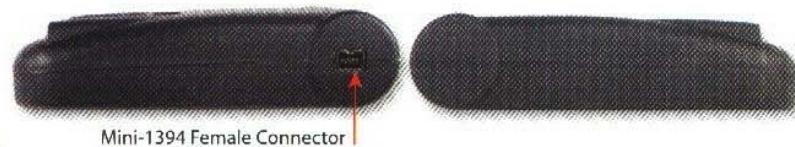
Bottom View



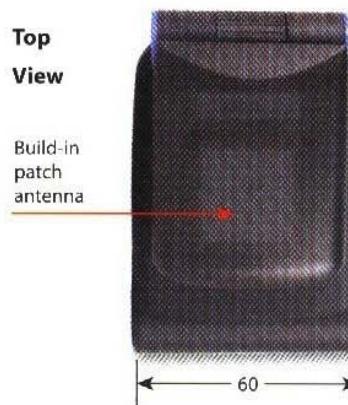
Front View



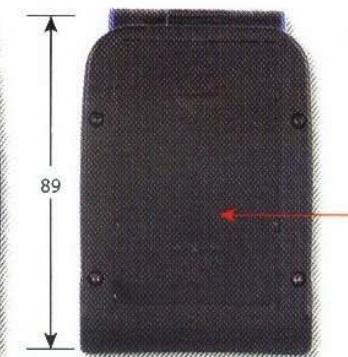
Side View



Top View



Bottom View



Front View



Back View



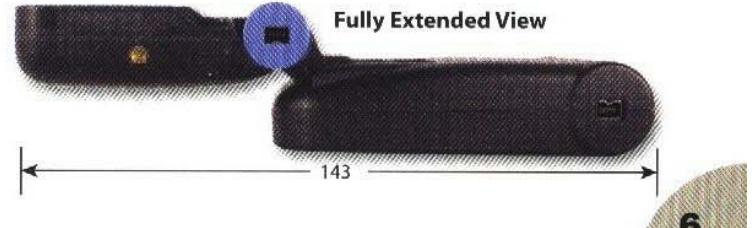
Side View



Side View



Fully Extended View





3. Bluetooth Slipper™ with Multi-Mode Foldable GPS receiver:

3.1 PACKAGING:

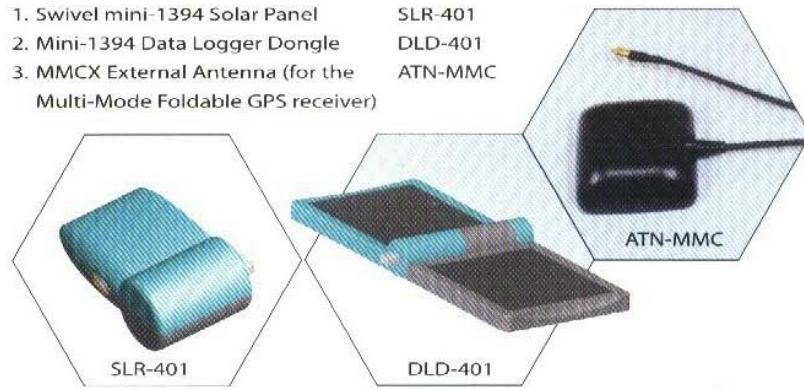
The standard package of the Bluetooth Slipper™ with Multi-Mode Foldable GPS receiver including:

Model Name	Model #
1. Bluetooth Slipper™	HI-401BT
2. Rechargeable Li-Polymer Batter 3.7V 1500mAh	401-BTT
3. Mini-1394 to Cigarette car charger	401-DCC
4. Mini-1394 to AC power adapter	401-ACC
5. Magnetic Car Holder	HOD-001
6. BTSlipper pouch with clipper	LCS-401
7. BT Slipper User Manual	MAU-401
8. Mini CDs	CDR-01
9. Multi-Mode Foldable GPS receiver	HI-303E
10. Mini-1394 to PS/II Connecting cable	CAB-303E
11. Multi-Mode Foldable GPS receiver Pouch	LCS-303
12. Multi-Mode Foldable GPS receiver User Manual	MAU-303E



Optional Accessories:

1. Swivel mini-1394 Solar Panel SLR-401
2. Mini-1394 Data Logger Dongle DLD-401
3. MMCX External Antenna (for the Multi-Mode Foldable GPS receiver) ATN-MMC



3.2 LED indicators:

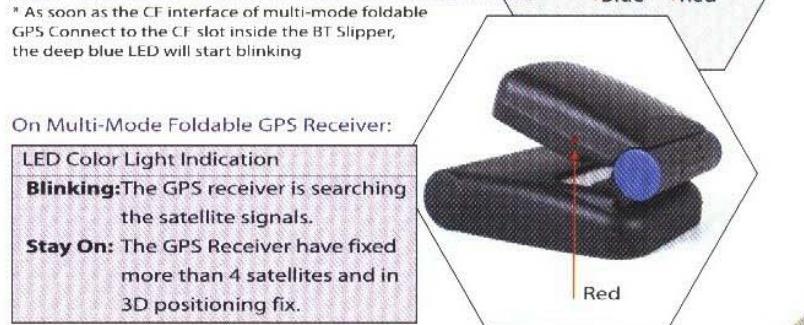
On Bluetooth Slipper:

Symbol	LED Color	Light Indication
Bluetooth connection Status	Deep Blue	Blinking: The Bluetooth is searching the host device or not connected* Stay On: The Bluetooth have found and connected with the host device
Battery	Red	Stay On: The battery charging

* As soon as the CF interface of multi-mode foldable GPS Connect to the CF slot inside the BT Slipper, the deep blue LED will start blinking

On Multi-Mode Foldable GPS Receiver:

LED Color Light Indication
Blinking: The GPS receiver is searching the satellite signals.
Stay On: The GPS Receiver have fixed more than 4 satellites and in 3D positioning fix.





4. System Specifications:

4.1 Bluetooth Slipper Specifications:

Bluetooth V1.1 Compliances	
Frequency Range:	2.4 ~ 2.4835 GHz unlicensed ISM band
Interface:	USB/UART/SPI
Receiver Sensitivity:	-80 dBm @ 0.1% BER
Transmitting Power:	Class 2 -6 dBm ~ +4 dBm
RF Input Impedance:	50 ohms
Frequency hopping:	1600hops/sec.
Baseband Crystal OSC:	16MHz
Data Rate:	Up to 723Kb/s
Operating Temperature:	-20°C ~ +80°C
Storage Temperature:	-30°C ~ +90°C
Supply Voltage:	Build-in Rechargeable Battery (3.7V 1500mAh)
Operation Time:	8 hrs after fully charged in continue mode
Transmitting Range:	10 meters (Typical)
Power Consumption:	45 mA (Typical)

4.2 Multi-mode Foldable GPS receiver Specifications:

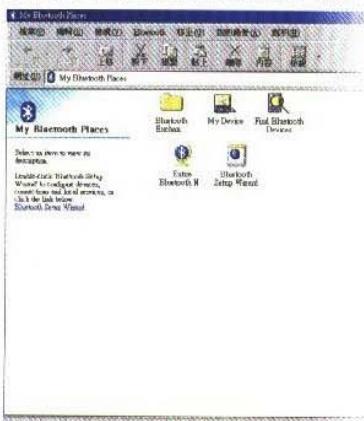
Interfaces:	Compact Flash type 1 & Mini-1394	
Protocol:	NMEA0183 GGA, GSA, GSV, RMC, VTG, GLL	
Baud Rate:	1 Hz	
Datum:	WGS84	
Channel:	12 channel all-in-view tracking	
Frequency:	L1, 1575.42MHz	
Hot Start:	8 sec. Average	
Warm Start:	38 sec. Average	
Cold Start:	48 sec. Average	
Reacquisition Time:	100 ms	
Position Accuracy:	15m 2D RMS, SA off	
Maximum Altitude:	18,000m	
Maximum Velocity:	515m/s	
Voltage:	DC 3.3V+-10%	
Power consumption:	120mA continuous mode	
Antenna Type:	Built-in active antenna	
External Antenna	MMCX (Optional)	
Connector:		
Dimension:	Fold	68 (L) x 48 (W) x 24 (H)mm
	Unfold	120 (L) x 48 (W) x 21 (H)mm
LED Indicator:	3D Positioning (on) or Searching GPS (blinking)	
Operating Temperature:	-10° to +70°	
Storage Temperature:	-40° to +85°	
Operation Humidity:	95%, Non-Condensing	



5. Get Connected; Installation Guide

5.1 Notebook Installations

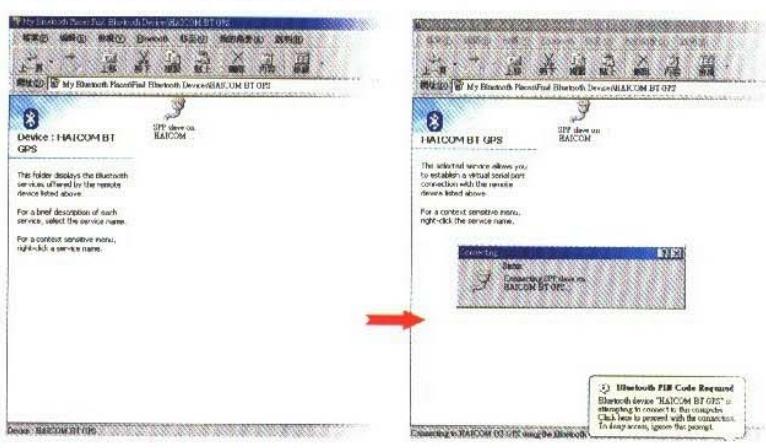
Run "My Bluetooth Places" and Double Click the "Find Bluetooth Devices" icon



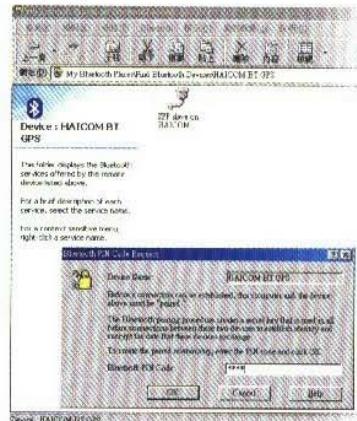
Double Click "HAICOM BT GPS"



Double Click "SPP on HAICOM BT GPS"



Key in pin code: 0000

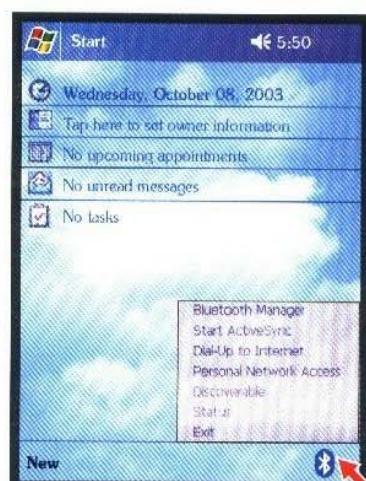
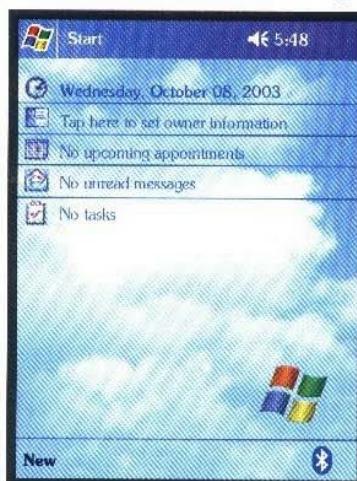


Connected



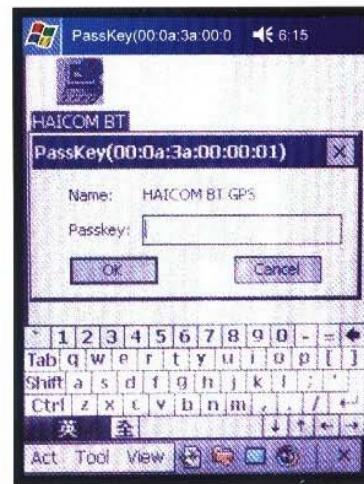
5.2 PDA Installations

Double Click the Bluetooth icon 





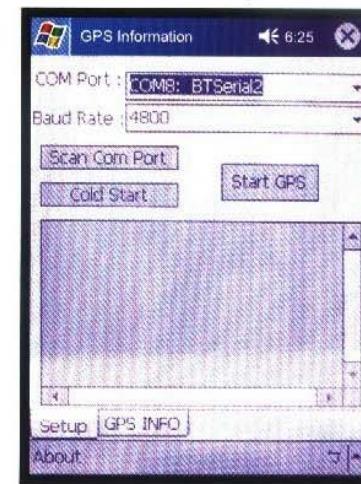
Double click "HAICOM BT GPS"



For Connected with device



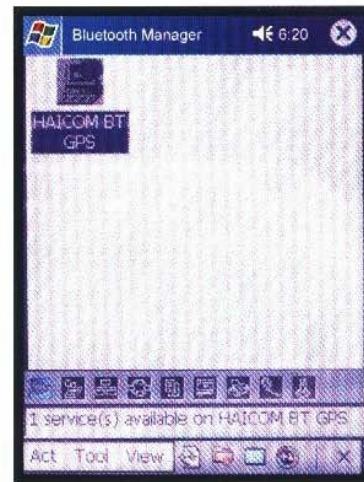
Select the correct com port



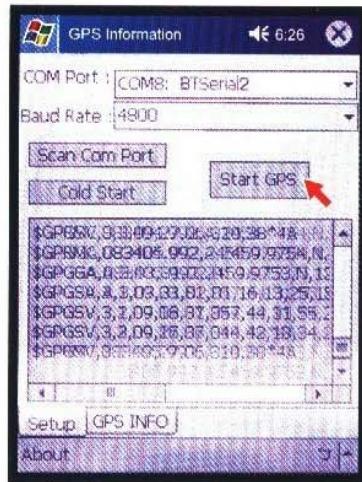
Key in pin code



Found the host device



Start GPS, NMEA message inflow



More satellites info

