

BT-Q920 Quick Installation Guide

Thank you for purchasing Qstarz BT-Q920 SiRF Star III Bluetooth GPS Receiver. It is compact and stylish design with high performance for GPS Navigation.

Main features:

- Adopt SiRF Star III GPS chipset
- 20-Channel GPS Receiver for fast acquisition and reacquisition
- The compact GPS receiver with stylish design & soft touching
- Super High sensitivity -159dBm
- Excellent performance - Cold/Warm/Hot start time: 42/38/1 sec. (average)
- Support standard NMEA-0183 at 4800 ~ 38400 bps baud rate
- Compatible with Bluetooth Serial Port Profile (SPP) in 10m wirelessly

A. Standard Package

GPS Unit BT-Q920 (1) + Lithium-Ion Rechargeable Battery (2) + Cigarette Adapter (3) + USB Cable (4) + Lanyard (5) + Warranty Card + Quick Installation Guide. (*Battery is pre-loaded in the GPS unit)



B. Appearance

1. Power jack (mini USB type)
2. Power button
3. Battery status LED (Red)
4. Bluetooth status LED (Blue)
5. GPS status LED (Green)
6. Internal antenna
7. Carrying Strap Hole



C. Battery installation

C-1 Please note the battery is already pre-installed into BT-Q920 GPS unit in advance.

C-2 Take Battery out: Push the **rubber pad** on the bottom side of the unit (1) and pull out the battery cover (2). Then pull out the battery connector, and take out the battery from the unit (3).



C-3 Put Battery in place: Push the **rubber pad** to right side on the bottom of the unit (1) and pull out the battery cover. Plug-in the battery connector to the slot of unit (2) and put battery cover on to the cabinet (3), then push back to left side and force it forward to fit firmly (4).



D. Charging your battery

For the first time using the BT-Q920, please charge battery until it is fully charged. Take the USB cable and connect it to the power jack of GPS unit and recharge through car cigarette adaptor. Or you can also take USB Cable to charge via PC. This will begin to charge the battery. Charging time is 4 hours typically.

- When the Power LED is blanking with Red, battery power is low status. Please recharge.
- When the Power LED is On with Red, the battery is under charging mode.
- When the Power LED is Off, the battery is fully charged.

E. Start to use

E-1 Fully charge the battery for 6~8 hours when using at the first time

A fully charged battery can last for 12 hours continuously operation.

NOTE: In firstly Use of this Bluetooth GPS Receiver, we strongly recommend you to bring Bluetooth GPS Receiver outdoor or open sky at least 5~10 minutes for sure 3D position fixed and almanac updated.

E-2 Activate the Bluetooth function in your PDA/Smart phone or PC

Before activating the Bluetooth function in your PDA/PC, please power on BT-Q920 Receiver for pairing and check if your device is equipped with Bluetooth function. If not, you may need to acquire an optional CF/SD Bluetooth card or Bluetooth dongle.

NOTE: The pairing procedure is required to execute in the first time only. And the pass code is "0000" if required.

E-3 Automatically create a shortcut in Bluetooth Manager window

After the pairing complete, the system will then find a quick connect device "BT-Q920 GPS" in Bluetooth Manager. In further use, you just need to click it to connect to this Bluetooth GPS Receiver.

E-4 Check the Serial Port in Bluetooth Setting

After complete pairing with the Receiver, please click "Serial Port" to confirm the assigned COM port. If you use PDA/PC to pair the GPS Receiver, please check "Outbound COM port".

E-5 Set correct Serial Port in your map software

Activate your navigation software and make sure to select the correct "Serial Port".

NOTE: In the map software such as TomTom, you might need to change preference and set "Other Bluetooth GPS" or "Other Cable NMEA GPS" according to PDA/phone model. In some case please consult map software company to vary the setting if you have issue on positioning.

E-6 Turn off the GPS unit

Press BT-Q920 power button 1~2 seconds to "Off" position.

F. OTHERS

F-1 LED Indicators

	LED Status	Flash	ON	OFF
1	Power (Red)	Low Power	Recharging	Sufficient Power
2	Bluetooth (Blue)	Bluetooth connected	Under pairing mode	GPS not powered
3	GPS (Green)	Detecting Satellite, GPS position not fix	GPS position is fixed, Navigation	GPS not powered

F-2 Manufacturing Setting

Protocol: NMEA 0183 (Default : GGA, GSA, GSV, RMC, VTG) / Baud Rate: 9600,N,8,1(Default); Datum: WGS-84

F-3 GPS Features

SiRF Star III GPS Receiver with super high sensitivity at -159dBm.

Frequency: L1, 1575.42 MHz; C/A Code: 1.023 MHz chip rate

Acquisition time: Hot start 1 sec. / Warm start 38 sec / Cold start 42 sec. (averaged)

F-4 Bluetooth Features

Bluetooth Version: V2.0 / SPP profile; Class 2 with 10 meters in open space

F-5 Overall Features

Ultra Low power consumption, built-in rechargeable Lithium battery (up to 12 hrs after fully charged)

Size: 59(W) x 44(D) x 21(H) mm / Weight < 60g (battery included)

G. Trouble Shooting

Problems	Reasons	Methods
No position output but timer is counting	Weak or no GPS signal can be received at the place of BT-Q920	Find an open space for your BT-Q920
Execute fail	Bluetooth function unstable	Re-Start PDA or PC or re-install software
Can not turn on the COM port	Install BT-Q920 incompletely or the COM port of the device is being used	Install BT-Q920 completely or stop other device that is being used.
Can not find out BT-Q920	Poor connection	Re-Start PDA or PC and re-install software.
No Signal	No action for few minutes may cause the PDA enter power saving mode. It may close the COM port at the same time.	Close the application and execute it again to re-open the COM port.
No Signal	Weak or no GPS signal when using BT-Q920 indoor	Go outdoors to improve the poor GPS signal.

Remark: Optional FM transmitter

This is an optional accessory. The FM transmitter is functioned to listen to music from audio devices such as MP3 player, Mobile, or PDA via your Car speaker. For further information, please consult Qstarz. (*Note that the use of FM frequency is restricted by each country's law.)