

Leadtek GPS LR9580

Bluetooth GPS receiver

Quick Installation Guide



FCC CE SRRC BT

1. Package

1. LR9580 main unit *1
2. USB cable *1
3. Car charger *1
4. Quick Installation Guide *1
5. Neck eyelet strap *1

2. Specifications

⦿ Technical specification

Feature	Item	Description
Chipset	MT 3318f +6601	GPS single chip + Bluetooth chipset
General	Frequency	L1, 1575.42 MHz
	C/A code	1.023 MHz chip rate
	Channels	14/32
Accuracy	Position	3 meters, 2D RMS
		2.5 meters 2D RMS, WAAS corrected
		<2.5 meters (50%)
	Velocity	0.1 meters/second
	Time	1 microsecond synchronized to GPS time
Datum	Default	WGS-84
	Other	selectable for other Datum
Time to First Fix (TTFF) (Open Sky & Stationary Requirements)	Reacquisition	0.1 sec., average
	Hot start	1 sec., average typical TTFF
	Warm start	36 sec., average typical TTFF
	Cold start	38 sec., average typical TTFF
Dynamic Conditions	Altitude	18,000 meters (60,000 feet) max.
	Velocity	515 meters/second (1000 knots) max.
	Acceleration	4g, max.
	Jerk	20 meters/second ³ , max.
Power	Main power input	DC 5.0V
	Operation hours	10 hours in continuous mode
	Battery	670 mA
		Built-in Li-Polymer battery
Serial Port	Electrical interface	UARTS
	Protocol messages	NMEA-0183 V3.01

◎ Environmental Characteristics

Items	Description
Operating temperature range	-10 deg. C to +50 deg. C
Storage temperature range	-20 deg. C to +65 deg. C

◎ Physical Characteristics

Items	Description
Length	75.6mm ± 0.12 mm
Width	28.4mm ± 0.08 mm
Height	18.7mm ± 0.08 mm
Weight	38 g (including rechargeable battery)

◎ Interface Specifications

Items	Description
Bluetooth	V1.2 compliance, class 2
	Baud rate: 4800, 9600, 19200, 38400
USB	Mini USB for charging only

◎ Software

Item	Description
Core of firmware	MTK
Code type	NMEA-0183 ASCII
Datum	WGS-84
Protocol message	GGA(1sec), GSA(5sec), GSV(5sec), RMC(1sec),VTG(1sec)
Output frequency	1Hz(default) up to 5Hz

◎ Electrical Specifications

Power

Item	Description
Main power input	DC 3.3~5.0V
Power consumption	185 mW (Acquisition mode)
	106 mW (Tracking mode)
Supply Current	56 mA@3.3VDC (Acquisition mode)
	32 mA@3.3VDC (Tracking mode)

Battery

Item	Description
Model Type	Lithium ion Polymer
Capacity	670mAh
Nominal Voltage	3.7V
Weight	12.6 g

3. Getting Started

3.1 Charge



Charge with your USB cable (via PC) or Car charger (via Car cigarette)

3.2 Power

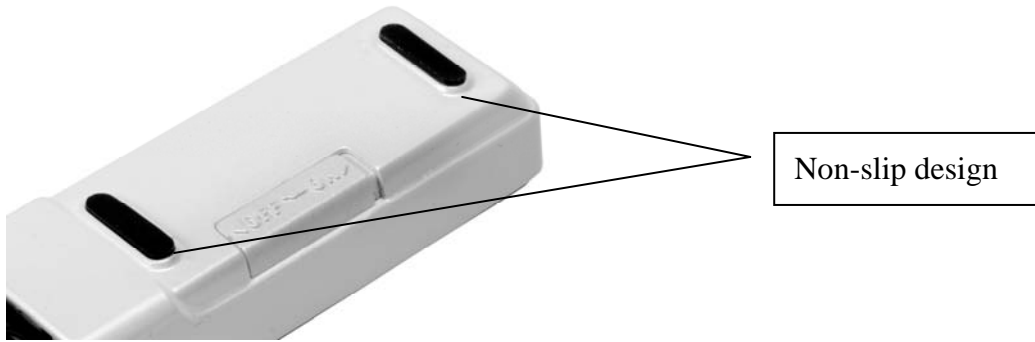


Pull the switch on to turn on LR9580.

3.3 Special design



Convenient eyelet, easy to carry



3.3 LED Display

LED 1 (GPS)-Green			
State	Always on	Quick blinking	Slowly blinking
Description	Memory full to stop	3D fixed	GPS signal acquisition
LED 2 (Bluetooth)-Blue			
State	Quick blinking	Slowly blinking	
Description	BT on, but not connected yet	BT connected	
LED 3 (Power)-Red			
State	Always on	Quick blinking	No
Description	Battery is charging	Low power	Battery is fully charged

3.5 Bluetooth Connection

Step 1

First, turn your Bluetooth device on (for example, your PDA), and activate the Bluetooth manager program. Secondly, turn the LR9580 on, and the Bluetooth LED indicator starts quick blinking.

Step 2

Wait a while, tap the device name "LR9580" once it is found in your PDA, and select SPP slave to add LR9580. When password is required, enter "0000".

Step 3

Once connected, the blinking starts to get slower. Now you can start your navigation with the map software in your PDA.

Note: Connecting methods for different Bluetooth devices vary, so please also refer to the manual for the specific device.

4. Safety Information

GPS is operated by the US government, which is solely responsible for the system's accuracy and maintenance. Although Leadtek GPS LR9580 is a high precision electronic NAVAID, it may still become unsafe under the circumstances of misuse or inaccurate reading. Hence there is a certain degree of risks involving the use of these products. In order to reduce the risks, please read carefully all the documentation regarding technical specifications before using Leadtek GPS LR9580. When in use, compare carefully the GPS results with all navigation information available, including that from other NAVAID, naked eye view, routes, etc. For safety reasons, it is necessary to solve all the problems before continuing to navigate.

Please DO NOT shake or clash this device, and please be aware that the dust-proof and water-proof are NOT guaranteed. The rechargeable battery is built inside, so please DO NOT detach it from the device arbitrarily. Meanwhile, please DO NOT use this device under the circumstances as below:

1. In extremely hot, humid or cold environment, for example, under the direct sun or in rain
2. Near the strong magnetic field
3. In dusty weather

Product ID: Leadtek GPS LR9580

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Version A

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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:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

RF exposure warning ·

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.