Freedom Keychain GPS 2000 Receiver

User's Manual

Hardware-Description
1. Bluetooth LED (Blue)
2. GPS LED (Orange)
3. Battery LED (Red)
4. Charging LED (Green)
5. Power Switch
6. USB Power Jack
7. Hole for Keyring

LED status

1. Bluetooth LED (Blue)
The blue LED is on solid:
- Device ready for connection

The blue LED blinks quickly:
- Bluetooth is ready for data transmission

The blue LED blinks slowly:
- Under sleeping mode and ready for connection

2. GPS LED (Orange)
The orange LED shines permanently:
- Satellite signal searching

The orange LED blinks 1 time / 1sec:
- Satellite signal being received

3. Battery LED (Red)
The red LED shines permanently:
- Battery requires charging

4. Charging LED (Green)
The green LED shines permanently:
- Battery on charge

The green LED goes out:
- Battery finished charging

How to charge battery of Freedom Mini GPS:
The Red LED comes on when the unit requires charging.
Insert the mini USB plug from USB cable into the mini USB port of Freedom Keychain GPS 2000.
The Green LED will come on while the unit is being charged and turn off when the unit has finished charging.

How to connect with the device of your choice:
1. Switch on your Bluetooth GPS receiver.

2. Enable / start the Bluetooth on your PDA, mobile or notebook PC according to the instructions.
Pair / Add the "Keychain GPS 2000" as a trusted device

3. Some Bluetooth devices require an authorisation code/Passkey. This code is "0000".

4. Then look for "GPS" in your GPS software and select that one for the "Keychain GPS 2000".

Note: The Keychain GPS 2000 incorporates the latest smart power function. If no activity from your hand held or you turn it off, then the lights on your Keychain GPS will stop flashing. The unit will wake up directly when the device asks for more information or you restart your hand held.
For further advice and latest information – www.keychaingps.com

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Technical Data:

Bluetooth Specification
· Bluetooth CSR BC04 Bluetooth V.2.0, class II
· 10 meters range
· SPP Serial port profile

GPS Specification
· Chipset: MTK
· 32 channels "All-In-View"-Tracking
- Processor Built-in ARM7TDMI
· Protocol: NMEA 0183/ V3.01 GGA, GLL, GSA, GSV, RMC, VTG, ZDA, and RTCM
· Baud Rate: 57,600
· Frequency L1, 1,575.42 Mhz
· Tracking Sensitivity: - 158dBM
· WAAS/EGNOS/MSAS Enabled
· Position deviation: 10 meters 90% 2D RMS 1-5 meters
· Velocity: 0,1 m/sec
· Cold/Warm/Hot start: 36/33/1 sec.
· Rechargeable 350mAh
· Lithium Polymer Akku
· Storage temperature: -20°C + 70°C
· Working temperature: -20°C + 60°C
· Air humidity: 5 - 90%
· Internal Ceramic Patch antenna
· Size in mm: L46 x 32 B x 14.7 H
· Weight: 22g (0.77oz)

FCC statement in User's Manual (for class B)

"Federal Communications Commission (FCC) 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.

FCC Caution:

1.The 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.

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

3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.