

Gper g

User Manual

www.spacosa.com
Made In KOREA

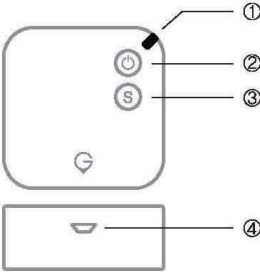
1. Contents

Components	Quantity
Gper	1
USB Cable	1
User Manual	1

2. Gper g Overview

No.	Designation
①	Status Indicator(LED)
②	Button1(On/Off)
③	Button2(SOS)
④	Power Cord

※ Warning
Components and features of this product are changeable without any notice for better performance.



3. How to use Gper g

1) System Requirements

Above Android 4.3 and IOS 7.0
Please check whether the application that is provided by SPACOSA runs ordinarily.

2) To register Gper g

- ① Download "Gper" or "Gper GPS" application on Google Play or App store.
- ② Sign up in App.
- ③ Follow the process to complete "Gper registration".
- ④ Registered Gper's location is shared with people in the group Gper is belong to.
- ⑤ CATCH LOC user must download an application that is available for Gper specifically. Further information please send your request to support@spacosa.com
- ⑥ Further information please visit (<http://guide.gper.me>) or scan QR code.



► How to use & Status Indicator(LED)

Switch on	Press and hold the ②	Flashing Red for 3 seconds
Switch off	Press and hold the ②	Flashing Red + Purple for 3 seconds
Check the power connection	Press and hold the ③	Flashing Purple for once
Beacon Mode (for registered device)	Press and hold the ② & ③ together for 2 seconds	Flashing Red + Blue for 5 seconds
Beacon Mode Off	A minute later, beacon mode is automatically terminated	Flashing Purple for 5 seconds
Sending SOS	Press and hold the ③	Flashing Red for 5 seconds
Low battery (Under 15%)	Check Status Indicator(LED)	Flashing Red
Charging	Check Status Indicator(LED)	Flashing Blue + Purple
Fully charged	Check Status Indicator(LED)	Displayed in Purple
GPS transmission failure	Check Status Indicator(LED)	Flashing Blue for 5 seconds
Data transmission failure	Check Status Indicator(LED)	Flashing Purple for 5 seconds
Certification of Network	Check Status Indicator(LED)	Flashing Red for 5 seconds
Firmware Update	Check Status Indicator(LED)	Flashing Blue

Further information please visit (<http://spacosa.blog.me>).
※ If LED does not work after pressing the button : It is a battery problem or out of use.

4. How to charge

- 1) Connect USB cable to Android 5-pin charger.
- 2) Plug the connected power cord to charge Gper.
- 3) It takes about 90 minutes to be charged fully but it depends on your environment.

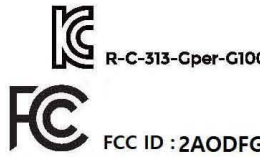
5. Warning

- 1) Do not attempt to damage or modify products other than original purpose.
- 2) It may involve the risk of overheating, fire, explosion, etc. Please observe the following.
 - a. If swelling is possible to identify visually, contact the manufacturer or seller immediately
 - b. Do not place the device near fire (Do not place the device in micro-wave)
 - c. Do not place or use in high temperature and humidity
 - d. Do not allow metal objects to touch the device
 - e. Do not allow water to contact the device
- 3) Do not allow water or other liquids to invade the device.
- 4) Storage temperature: -15~60°C, Operating temperature: -15~60°C.
- 5) For GPS-based device, interval can be generated. (Between inside buildings and underground, etc.)
- 6) Please fully charge the device first, if there is any requirement of firmware update.

6. Specifications

GPS	- GPS : 1 575.42 MHz(RX)
DISPLAY	- THREE COLOR LED
BUTTON	- 2 Button (POWER & SOS)
BATTERY	- 3.7V Li-polymer battery 1000mA/H
POWER	- 5V 1A (Micro USB)
SENSOR	- Triaxial acceleration sensor/Bluetooth low energy, ARM Cortex-M0

7. Certifications



*This wireless device is possible of a radio wave interference therefore can not provide a service that is related to the safety of life.
FCC ID for WCDMA GPS module : XMR201510UC20

8. Support

While using the device if you have any problems or things to improve please send your request to the contact below.

E-mail : support@spacosa.com
Homepage : www.spacosa.com

9. Warranty

One year warranty.
If you have any problem, please contact you'r seller.

10. WCDMA, GPS Module Model Name : UC20-G,

UC20-G MINIPICIE

11. CE/FCC Frequency

- CE
- BT : 2 402 MHz ~ 2 480 MHz
 - WCDMA BAND I : TX : 1 922.4 MHz ~ 1 977.6 MHz
RX : 2 112.4 MHz ~ 2 167.6 MHz
 - WCDMA BAND VIII : TX : 882.4 MHz ~ 912.6 MHz
RX : 927.4 MHz ~ 957.6 MHz

FCC

- BT : 2 402 MHz ~ 2 480 MHz
- WCDMA : 826.4 MHz ~ 846.6 MHz
1 852.4 MHz ~ 1 907.6 MHz

12. Antenna Spec

- Model : LA31H2458-A35
- Type : Multi-Layer Antenna
- Peak Gain : 5.19 dBi
- Manufacturer : JIA XING GLEAD ELECTRONICS CO.,

This device can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.

Heretby, [Spacosa Corporation] declares that the radio equipment type [designation of type of radio equipment] is in compliance with Directive 2014/53/EU.

FCC Part 15.109(b) Warning Statement.
NOTE: 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.

This device should be installed and operated with minimum 20 cm between the radiator and your body.

FCC RF POWER

[Peak Output Power Measurement]

Channel	Frequency (MHz)	Peak Output Power (dBm)	Antenna Gain (dBi)	Peak Output Power (EIRP) (dBm)	Duty Cycle Factor * Peak Output Power (EIRP) (dBm)	Max. Limit (dBm)	Result
0	2402	-1.7	5.19	3.49	5.09	≤ 30	Pass
19	2440	-1.6	5.19	3.59	5.19	≤ 30	Pass
39	2480	-1.6	5.19	3.59	5.19	≤ 30	Pass

CE RF POWER

Temperature	Frequency (MHz)	Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	Limit (dBm)	Results
-15°C	2402	-1.5	5.19	3.69	20	Pass
	2441	-1.5	5.19	3.69	20	Pass
	2480	-1.4	5.19	3.79	20	Pass
25°C	2402	-1.7	5.19	3.49	20	Pass
	2441	-1.6	5.19	3.59	20	Pass
	2480	-1.6	5.19	3.59	20	Pass
60°C	2402	-1.8	5.19	3.39	20	Pass
	2441	-1.7	5.19	3.49	20	Pass
	2480	-1.5	5.19	3.69	20	Pass

This equipment generates uses and can radiate radio frequency energy and is not intended and used in accordance with the instructions.
Note: These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Heretby, [Spacosa Corporation] declares that the radio equipment type [designation of type of radio equipment] is in compliance with Directive 2014/53/EU.
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.
This device is not to be used near the head.
* Duty cycle factor is 10% (average over 10 minutes).
† The device is not to be used near the head.
‡ The device is not to be used near the head.
§ The device is not to be used near the head.
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