Gper g
User Manual

www.spacosa.com

Made in KOREA

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1. Contents

Components	Quantity
Gper	1
USB Cable	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

① ② ③ ④
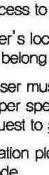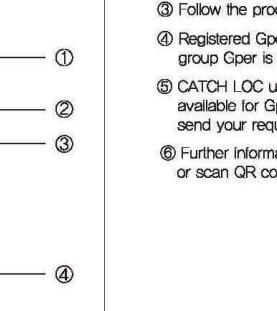
※ Warning
Components and features of this product are changeable without any notice for better performance.

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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 I.OC 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 (Linder 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.

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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.

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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

R-C-313-Gper-G100

211-190613
Gper-G100

FCC ID : 2AODFGPER-G100

FCC ID for WCDMA GPS module : XMR201510UC20

"This wireless device is possible of a radio wave interference therefore can not provide a service that is related to the safety of life."

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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 MINIPCIE

11. CE/FCC Frequency
CE
- BT : 2 462 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 : 2 462 MHz ~ 2 480 MHz
- WCDMA : 826.4 MHz ~ 846.6 MHz
      1 852.4 MHz ~1 907.6 MHz

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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.

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

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