USER MANUAL

GeoSync-A1

GeoSync-B1

GEOSYNC

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REVISION HISTORY

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TECHPOWERING THE WORLD

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GeoSync User Manual, Version 1.0

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TABLE OF CONTENTS

1. INTRODUCTION **5**

1.1. GEOSYNC 5

1.2. ABBREVIATIONS 5

3.TECHNICAL SPECIFICATIONS **5**

4. PRODUCT CERTIFICATIONS **6**

5. FEATURES **6**

6. USAGE SET UP CONSIDERATIONS **6**

7. APPLICATIONS **7**

8. CAUTIONS AND WARNINGS : **7**

9. TROUBLESHOOTING **8**

10. SUPPORT **8**

11. WARRANTY **8**

12. DECLARATION **9**

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1. INTRODUCTION

GeoSync is a high performance, high accurate GPS receiver. It supports all international standards which include NMEA protocol. Evolute GPS module is high performance dual-band (L1/L5) GNSS/IRNSS positioning module. It supports the global civil navigation systems including GPS, NavIC, BDS, GLONASS, Galileo, and QZSS.

1.1. GeoSync

GeoSync integrates efficient power management architecture, while providing high precision, high sensitivity and low power consumption GNSS solutions which make it suitable for navigation applications on automotive and electronics navigation, as well as fleet Management. It supports different operating systems. Magnetic base, 3M sticker option provides nonslip on bottom when mounted on any surface.

1.2. ABBREVIATIONS

Abbreviation	Description
NavIC	Navigation with Indian Constellation
BDS	BeiDou Navigation Satellite System
GLONASS	Globalnaya Navigation Sputnik Vaya Sistema
QZSS	Quasi-Zenith Satellite System
LED	Light Emitting Diode
USB	Universal Serial Bus
GPS	Global Positioning system
NavIC	Navigation with Indian Constellation
GNSS	Global navigation satellite system
IRNSS	Indian regional navigation satellite system

3.TECHNICAL SPECIFICATIONS

Communication	USB 2.0 Type A male (Optional Micro and Type C)
Frequency	NavIC: L5 1176.45 MHz, GPS: L1, 1575.4200MHz.
GPS	L1, 1575.4200Mhz
Supported Bands	Concurrent reception of L1 and L5 band signals
Satellite reception	Accepts the signals of up to 72 satellites at the same time
Communication protocol	Supports NMEA 0183 protocol
Baud rate	115200bps
IP rating	IP6x protection class
Visual indication	LED indicator for GPS Status
Operating Temperature	-35 deg C to 80 deg C
Power Supply	5V, 500mA

Current Consumption	Max 45mA
Cold Start	30-40 seconds
HOT Start	4seconds
Cable Length	3meter, 6meter
Certifications	IPxx, Drop test
Communication	USB 2.0 Type A male (Optional Micro and Type C)

4. PRODUCT CERTIFICATIONS

- IPxx test.
- RoHS (Restriction of Hazardous substance) certification.

5. FEATURES

- Integrated antenna module, waterproof housing, very easy to install
- Supports all civil navigation satellite systems along with India's NAVIC (IRNSS) satellite signal system.
- Receive L1 and L5 dual-band multi-mode signals at the same time.
- Support RTD differential mode.
- High precision & simple peripheral device.
- Significantly improves satellite positioning accuracy to sub-meter level, and the excellent anti-multipath interference function improves positioning accuracy in urban.

6. USAGE SET UP CONSIDERATIONS

GeoSync-A1

GeoSync-B1

GeoSync- A1

- Ensure the dongle has a clear view of the sky or is near a window.
- Geosync device is used as a plug and play device.
- the necessary applications and drivers shall be installed.

- Device will be connected to laptops, PCs through USB communication.
- Once the GeoSync-A1 is connected to PC or laptops through USB the green light will blink and once the location is fetched the red light will blink with the green light as led indication.

GeoSync- B1

- Ensure the dongle has a clear view of the sky or is near a window
- Geosync device is used as a plug and play device.
- the necessary applications and drivers shall be installed.
- Device will be connected to laptops, PCs through USB communication.

7. APPLICATIONS

- PDAs, Pocket PCs and other portable devices.
- Surveying and mapping products such as area measurement and distance measurement.
- Synchronize UTC time and timing fields.
- Track recording and GPS data point calibration.
- Maritime aircraft, drones and other asset management products.
- Personal positioning and vehicle navigation, positioning and other trajectory tracking products.
- Location tracking of workstation.

8. CAUTIONS AND WARNINGS :

Safe operation of this device is only warranted, if the instructions in this operating manual have been complied with and use only manufactured supplied parts.
Device enclosure to be opened or repaired by authorized service person only. Never open the device by yourself. Always contact Evolute Fintech Innovations Pvt. Ltd. authorized service center.
Use only spare parts and accessories supplied or authorized by Evolute Fintech Innovations Pvt. Ltd. The use of unauthorized parts or accessories may affect the function and safety of the device and warranty will be void in this case.

It is no longer possible to operate the device safely, if:

TECHPOWERING THE WORLD

- The housing/enclosure has been damaged
- Moisture reached inside the device
- The connecting cables are damaged

Disconnect the device immediately, whenever failure occurs as mentioned above, and contact Evolute Fintech Innovations Pvt. Ltd. customer service.

- Keep the device clean from dirt.
- Handle the module with care to avoid physical damage.

9. TROUBLESHOOTING

- Ensure proper connection : Make sure the GPS dongle is securely connected to the USB port.
- Verify the device connection : Check if the device is recognized in the system's Device Manager (Windows).
- Driver installation : Ensure the correct drivers are installed. Reinstall if the device is not detected.
- Check Signal Strength : Ensure the dongle has a clear view of the sky or is near a window
- Wait for a Fix : GPS dongles may take a few minutes to acquire a satellite fix, especially after being moved.
- Try onother location: Move to an open area if signal acquisition fails.
- Verify coordinates : Check if the GPS is providing valid latitude and longitude.

10. SUPPORT

Organization	Evolute fintech Innovations Private Limited
Email	techsupport@evolute-fintech.in
Responsibility	Business Development

11. WARRANTY

The product warranty will be covered for a period of 12 months from the date of Purchase against manufacturing defects.
The warranty will not be covered under below conditions:

- Defect/ Physical damage in the product caused by accident, misuse, mishandling, negligence alteration and modification.
- Tampering of internal circuit without prior notice/approval from Evolute Fintech Innovations Pvt. Ltd.
- Natural calamities, over voltage, spikes, surges of electricity will not cover the warranty though all the precautions are taken while product designing.

12. DECLARATION

Evolute Fintech Innovations Pvt. Ltd. will not be responsible for any injury, loss, damage or expenses directly or indirectly if the product is not used according to the Standard Operating Procedures(SOPs) set by the company.

We will make every effort to carry out repair / replacement under this warranty as early as possible and it is explicitly made clear that the company shall not be liable to do so within any specified time or period.