

## GP-Probe Case for DIN L1

### IP66-Rated Protective Case for GP-Probe DIN L1

Designed for field deployments, mobile monitoring setups, temporary GNSS interference detection zones, and offline data collection

**GP-Probe Case for DIN L1** is an IP66-rated protective enclosure specifically designed for the GP-Probe DIN L1 GNSS interference detector. Available in two configurations — 4G Kit and PC Kit — it provides reliable operation in harsh environments for both remote and offline use cases.

- IP66-rated protection against water and dust
- Removable 20,000 mAh power bank, certified for air travel
- Flexible connectivity options:
  - 4G Kit: Teltonika RUT241 router for real-time data streaming to GP-Cloud
  - PC Kit: Built-in BeagleV-Ahead micro-PC for standalone data logging
- External antenna connections: GNSS, 4G, Wi-Fi
- USB Type-C power input for charging or external power sources (e.g., solar panels)
- Quick access to internal components for maintenance and battery replacement



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Product information and specifications  
Document version: v.1.0



Designed for GP-Probe DIN L1

- IP66 Protection  
*Water- and dust-resistant for all-weather use*
- Removable Power Bank  
*20,000 mAh. Up to 16 hours of operation*
- Rugged SMA connectors  
*GNSS, 4G, and Wi-Fi antennas*
- USB-C Power Input  
*Compatible with solar panels*
- Airline-Compliant  
*Power bank certified for air travel*



GP-Probe DIN L1

4G Router or Micro PC

Removable Powerbank

## Ordering Information

### GP-Probe Case for DIN L1 – 4G Kit

**SKU:** GPP/CASE/DINL1/4G/Kit

Mobile GNSS interference monitoring with continuous real-time data transmission to GP-Cloud.

- GP-Probe DIN L1 – PPS BL RL SCR
- 20,000 mAh Power Bank (Sandberg PD 20W 20000)
- 4G/Wi-Fi Router (Teltonika RUT241)
- Two 4G Antennas
- One Wi-Fi Antenna
- Magnetic GNSS Antenna (3-meter cable)

**Note:** GP-Cloud subscription/license is sold separately.

### GP-Probe Case for DIN L1 – PC Kit

**SKU:** GPP/CASE/DINL1/PC/Kit

Standalone GNSS interference detection with local data logging. No internet required.

- GP-Probe DIN L1 – PPS BL RL SCR with software options:
  - OSP: Onboard Signal Processing
  - STREAM: Raw GNSS Data Streaming
- 20,000 mAh Power Bank (Sandberg PD 20W 20000)
- Micro-PC with integrated Wi-Fi hotspot for direct local access
- 128 GB MicroSD card for up to 3 months of data storage
- One Wi-Fi Antenna
- Magnetic GNSS Antenna (3-meter cable)

**Note:**

The GP-Probe Case for DIN L1 can also be supplied **without the probe** for users who already own the sensor. This option is available upon special request — please contact our team for details.

## Application Scenarios

### GP-Probe Case DIN L1 – 4G Kit

*Real-time remote monitoring via GP-Cloud*

- Temporary GNSS monitoring during events  
Ideal for deployment at drone shows, airshows, or public gatherings. Place units around the perimeter and receive real-time interference alerts in GP-Cloud.
- Field research and equipment testing  
Use in mobile test campaigns to evaluate GNSS performance or to investigate interference hotspots.
- Monitoring along critical infrastructure  
Temporary or semi-permanent deployment along highways, railways, or near airports and seaports to detect vehicle-based or localized jamming.
- Quick-response deployment in high-risk areas  
Portable solution for border regions, conflict zones, or areas with known GNSS disruptions.
- Demonstration and pilot projects  
Fast and easy setup for customer demonstrations, evaluations, or pilot deployments—no tools required.

### GP-Probe Case DIN L1 – PC Kit

*Offline operation with local data logging and Wi-Fi access*

- GNSS monitoring in remote areas with no internet  
Fully autonomous solution for rural, mountainous, or infrastructure-poor locations.
- GNSS vulnerability testing and signal recording  
Ideal for capturing interference scenarios or testing GNSS equipment in the field.
- Post-incident data collection  
Use for temporary deployment in sensitive zones to gather forensic-level data for later offline analysis.
- Secure environments with restricted connectivity  
Suitable for installations in data centers, government facilities, or any location with no external network access.
- Local access and visualization via Wi-Fi  
Monitor GNSS signal quality and interference in real time using a laptop or smartphone connected to the case's internal Wi-Fi access point.

## Technical Specifications

<b>Supported GP-Probe Model:</b>	GP-Probe DIN L1
<b>Connectors:</b>	4G Kit: <ul style="list-style-type: none"> <li>• GNSS antenna, SMA female, IP67</li> <li>• Wi-Fi antenna, SMA revers female, IP67</li> <li>• 4G Main antenna, SMA female, IP67</li> <li>• 4G Aux antenna, SMA female, IP67</li> <li>• USB Type-C, IP67</li> </ul> PC Kit: <ul style="list-style-type: none"> <li>• GNSS antenna, SMA female, IP67</li> <li>• Wi-Fi antenna, SMA revers female, IP67</li> <li>• USB Type-C, IP67</li> </ul>
<b>Micro-PC</b>	
<b>Processor:</b>	2GHz quad-core RISC-V
<b>Memory:</b>	4GB LPDDR4
<b>Storage:</b>	16GB eMMC
<b>GNSS Data Storage:</b>	128 GB MicroSD
<b>Wi-Fi:</b>	802.11b/g/n (Wi-Fi 4), Access Point (AP), Station (STA) Wi-Fi preconfigured in Access Point mode for direct connection to the GP-Probe web interface and real-time data monitoring
<b>Operational System:</b>	Debian Linux (64-bit) Open-source architecture; user-customizable software
<b>Application:</b>	Python-based application that connects to the GP-Probe via WebSocket, captures real-time data, and logs it directly to the internal SD card for later analysis.
<b>4G/Wi-Fi Router</b>	
<b>Router Model:</b>	Teltonika RUT241230000, Global version, eSIM
<b>Mobile Module:</b>	4G LTE Cat 4 up to 150 DL/50 UL Mbps 3G up to 21 DL/5.76 UL Mbps 2G up to 236.8 DL/236.8 UL kbps
<b>eSIM:</b>	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
<b>SIM Switch:</b>	1 x 2FF SIM and 1 x eSIM, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail
<b>Wireless Mode:</b>	802.11b/g/n (Wi-Fi 4), Access Point (AP), Station (STA)
<b>Wi-Fi Security:</b>	WPA2-Enterprise: PEAP, WPA2-PSK, WPA-EAP, WPA-PSK, WPA3-SAE, WPA3-EAP, OWE; AES-CCMP, TKIP, Auto-cipher modes, client separation, EAP-TLS with PKCS#12 certificates, disable auto-reconnect, 802.11w Protected Management Frames (PMF)
<b>Firewall:</b>	Port forward, traffic rules, custom rules, TTL target customization
<b>Power</b>	
<b>Powerbank Model:</b>	Sandberg PD 20W 20000 Aircraft carry-on approved
<b>Powerbank Capacity:</b>	20000 mAh / 74 Wh (Sandberg PD 20W 20000)

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<b>Charging:</b>	External IP-67 USB Type-C 90 minutes for a full charge
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<b>Operating Time:</b>	Up to 16 hours
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## Mechanical

<b>Enclosure:</b>	Ruggedized, IP66-rated for dust and water resistance
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<b>Size:</b>	260 × 200 × 115 mm
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<b>Weight:</b>	~2.3 kg
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## Environmental

<b>Operational Temperature:</b>	0°C to +35°C (Temperature limits are defined by the power bank)
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<b>Storage Temperature:</b>	0°C to +45°C (Temperature limits are defined by the power bank)
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<b>Humidity:</b>	0% – 90% RH non-condensing @ 40°C
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## Regulatory Compliance

<b>Complies with the requirements:</b>	CE   FCC   ROHS   RED
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## Warranty & Support

<b>Warranty:</b>	1 year Extended warranty is available
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<b>Support:</b>	1 year of complimentary technical support
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## Package Content

<b>GP-Probe Case for DIN L1:</b>	1 pc. Fully assembled case with GP-Probe DIN L1, power bank or micro-PC
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<b>Antennas:</b>	Magnetic GNSS antenna with 3-meter cable. 1 pc. Wi-Fi antenna. 1 pc. Cellular antennas. 2 pc. (for 4G Kit only).
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<b>Manuals:</b>	Online quick start guide
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## Product Gallery





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