GP-Probe Case for DIN L1
Product information and specifications
Document version: v.1.0

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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

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

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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.

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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

Supported GP-Probe Model:	GP-Probe DIN L1
Connectors:	4G Kit: • GNSS antenna, SMA female, IP67 • Wi-Fi antenna, SMA revers female, IP67 • 4G Main antenna, SMA female, IP67 • 4G Aux antenna, SMA female, IP67 • USB Type-C, IP67 PC Kit: • GNSS antenna, SMA female, IP67 • Wi-Fi antenna, SMA revers female, IP67 • USB Type-C, IP67

Micro-PC

Processor:	2GHz quad-core RISC-V
Memory:	4GB LPDDR4
Storage:	16GB eMMC
GNSS Data Storage:	128 GB MicroSD
Wi-Fi:	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
Operational System:	Debian Linux (64-bit) Open-source architecture; user-customizable software
Application:	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.

4G/Wi-Fi Router

Router Model:	Teltonika RUT241230000, Global version, eSIM
Mobile Module:	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
eSIM:	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
SIM Switch:	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
Wireless Mode:	802.11b/g/n (Wi-Fi 4), Access Point (AP), Station (STA)
Wi-Fi Security:	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)
Firewall:	Port forward, traffic rules, custom rules, TTL target customization

Power

Powerbank Model:	Sandberg PD 20W 20000 Aircraft carry-on approved
Powerbank Capacity:	20000 mAh / 74 Wh (Sandberg PD 20W 20000)

Charging:	External IP-67 USB Type-C 90 minutes for a full charge
Operating Time:	Up to 16 hours

Mechanical

Enclosure:	Ruggedized, IP66-rated for dust and water resistance
Size:	260 × 200 × 115 mm
Weight:	~2.3 kg

Environmental

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

Regulatory Compliance

Complies with the requirements:	CE | FCC | ROHS | RED

Warranty & Support

Warranty:	1 year Extended warranty is available
Support:	1 year of complimentary technical support

Package Content

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

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Product Gallery

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