

Small and robust battery-mounted GPS tracker with Bluetooth®

pTag 400 is a compact, IP65-rated vehicle tracker built for fast, low-effort deployment. It connects directly to the vehicle battery using clamp connectors and installs in under five minutes, without specialist tools or technicians.

KEY FEATURES AND BENEFITS

Install in minutes, not hours

pTag 400 connects directly to the vehicle battery using clamp connectors. Anyone can install the device in under five minutes, without tools, workshops or specialist technicians. Vehicles stay on the road, and tracking starts immediately.

Track accurately, even in complex environments

Dual-band L1 and L5 GNSS uses two satellite signals instead of one. This delivers faster start-up, more accurate positions and stable tracking in cities, near buildings and in areas with poor satellite visibility.

Stay connected with future-proof mobile technology

4G LTE Cat-M is designed for connected devices, not smartphones. It provides reliable coverage, low power consumption, and long-term network availability as older 2G and 3G networks are phased out.

Operate reliably in harsh conditions

The IP65-rated casing protects pTag 400 against rain, dust and harsh under-bonnet environments. The compact, slim design allows flexible placement in light vehicles, vans, and motorbikes.

Detect incidents automatically

A built-in accelerometer enables crash detection and event logging. This provides valuable data for insurance telematics, safety monitoring and incident follow-up.

Extend functionality with Bluetooth sensors.

Built-in Bluetooth allows connection to external sensors and beacons. This makes it easy to add functions such as temperature monitoring or asset identification without requiring hardware changes.

Get instant visibility in the Postrack platform

pTag 400 connects seamlessly to the Postrack platform. You gain real-time visibility of vehicle location and movement, supporting better utilisation, lower losses and simpler fleet operations.

Typical use cases

Light commercial vehicles, vans, motorbikes, rental and leasing fleets, courier services and insurance telematics.



PTAG400 HARDWARE FEATURES

- **Installs in under five minutes.** By clamping directly onto the vehicle battery, with no tools or technicians required.
- **IP65-rated rugged design.** Built for reliable operation in rain, dust and harsh under-bonnet environments.
- **Dual-band L1 and L5 GNSS.** Gives faster start-up and more accurate, stable positioning in cities and challenging locations.
- **4G LTE Cat-M connectivity.** Gives reliable coverage, low power consumption and long-term network support.
- **Real-time tracking.** Get immediate visibility in Postrack of vehicle location and movement.
- **Built-in accelerometer.** Gives crash detection for safety monitoring and insurance telematics use cases.
- **Bluetooth®.** Gives support for sensors and beacons, enabling extensions such as temperature monitoring and asset identification.

Technical specifications

MODULE

FMC880-QJAB0: Quectel EG915U-EU with AG3335

FMC880-QKAB0: Quectel EG915U-LA with AG3335

Technology LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE

GNSS

GNSS L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS*

L5: GPS, GALILEO, BEIDOU

Receiver L1: 75 channel, L5: 60 channel

Tracking sensitivity -165 dBm

Position accuracy < 1.5 m CEP

Velocity accuracy < 0.1 m/s (within +/- 15% error)

Hot start < 1 s

Warm start < 25 s

Cold start < 35 s

CELLULAR

2G bands GSM: B2/B3/B5/B8

4G bands

FMC880-QJAB0: LTE FDD (CAT 1): B1/B3/B5/B7/B8/B20/B28

FMC880-QKAB0: LTE FDD (CAT 1): B2/B3/B4/B5/B7/B8/B28/B66

Data transfer LTE FDD (CAT 1):

GSM (GPRS):

Transmit power

Class 5 for GSM850/900: 30±5dBm

Class 3 for GSM1800/1900: 29±5dBm

Class 3 for LTE-FDD: 26±5dBm

Bluetooth: 5.54±2dBm

Bluetooth LE: -4.26±2dBm

Data support SMS (TEXT, PDU), Network protocols (TCP, UDP, TLS, MQTT)

POWER

Input voltage range 10 - 30 V DC with overvoltage protection

Internal Back-up battery 170 mAh Li-Ion battery 3.7 V

Internal fuse 3 A, 125 V

BLUETOOTH® LE

Specification 4.0 + LE

Supported peripherals Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support

PHYSICAL SPECIFICATION

Dimensions 92.5 x 57.6 x 14 mm (L x W x H)

Weight 63 g

OPERATING ENVIRONMENT

Operating temperature (without battery) -40 °C to +85 °C

Storage temperature (without battery) -40 °C to +85 °C

Operating temperature (with battery) 0 °C to +40 °C

Storage temperature (with battery) -20 °C to +45 °C

Operating humidity 5% to 95% non-condensing

Ingress Protection Rating IP65

Battery charge temperature 0 °C to +45 °C

Battery discharge temperature -20 °C to +60 °C

Battery storage temperature

-20 °C to +45 °C for 1 month

-20 °C to +35 °C for 6 months

FEATURES

Ignition detection Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

CERTIFICATION & APPROVALS

Regulatory E-Mark, RoHS, REACH, RCM, Declaration of IMEI assignment, ICASA, CITC, IMDA

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