VEHICLE TELEMATICS

Vehicle Gateway

LTE-based Fleet Management Device with BLE Connectivity & LED Indicator

Description

The **Vehicle Gateway** is Powerfleet's next generation fleet and security management device that runs on the LTE network. It is a high quality, yet cost-effective and easy to install device, with built-in BLE* connectivity and LED indicators. It is equipped with a large capacity, rechargeable backup battery (1000mAh) and includes collision detection, basic driver behavior capabilities and built-in motion sensors. The sensor enables movement and towing detection to ensure improved compliance with vehicle security requirements.

Powerfleet's Vehicle Gateway, integrates with Unity, our SaaS-based fleet intelligence platform that ingests, processes, and enriches data from every asset, vehicle, and person, and helps increase visibility, identify safety risks, reduce theft, meet compliance, enhance billing, simplify maintenance and more.

*Currently available for CAT M1 variant only

Key Features

- Built-in BLE connectivity (CAT M1 variant only)
- 2 LEDs for Cellular/GNSS installation validation indication
- Basic driver behavior monitoring capabilities including harsh acceleration, harsh braking, harsh turn, over speeding and accident detection
- Memory that can store up to 7,000 logged events in offline scenarios
- I/Os:
  - Ignition switch input
  - 2 programmable Inputs (digital/analog/ frequency counter)
  - 2 programmable I/O (dry contact/ output)
  - RS-232 serial port for accessories/ programming
  - 1-wire interface – Dallas port (driver ID/ trailer ID and for 1 external temperature sensor)

- Additional advanced capabilities:
  - Up to 100 Geo-Fences
  - Cell-ID based geo location (alternative to GNSS when not available)
  - Curve smoothing

LTE CAT M1/CAT 1 LATAM

Motion sensors & towing detection

Large capacity 1000mAh internal backup battery

Designed to **Revolutionize Your Fleet Operations**

The **Vehicle Gateway** offers a broad array of business-relevant fleet management features designed to revolutionize your operations:

- Improve security and Stolen Vehicle Recovery (SVR)
- Reduce safety incidents
- Shrink operating costs
- Mitigate liability
- Increase longevity of assets
- Adhere to compliance standards

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Technical Specifications

Communication

Cellular Technology	LTE CAT M1 with 2G Fallback (Worldwide) 4G Bands: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 2G Bands: B2, B3, B5, B8 LTE CAT-1 with 3G/2G fallback (LATAM) 4G Bands: B1, B2, B3, B4, B5, B6, B7, B28 3G Bands: B1, B2, B3, B4 2G Bands: B2, B3, B5, B8
Cellular Data Rates	LTE CAT M1: uplink up to 375 kbps, downlink up to 300 kbps LTE CAT-1: uplink up to 5Mbps, downlink up to 10Mbps 2G (EGPRS): uplink up to 236kbps, downlink up to 296kbps
SIM	Nano SIM, Internal, replaceable. eSIM available
Antenna	Internal
Packet Data	TCP/IP or UDP/IP
SMS	PDU

BLE

BLE Technology	Secure BLE 4 (CAT M1 only) BLE 5.1 Ready

Global Positioning

Type	GNSS
Sensitivity	High sensitivity: -165dBm during tracking, -148dBm during acquisition
TTFF @ -130dB	Cold Start: <30s, Warm Start: <2s, Hot Start: <2s Cold <35Sec, Warm<35Sec, Hot<1Sec
Internal Antenna	On board

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Inputs & Outputs

Inputs	2
Configurable I/Os	2
Ignition	Yes

Interfaces

COM port	1 x RS232

Power

Input Voltage	9-32VDC
Internal Battery	Li-Ion Polymer, 3.7V, 1Ah, rechargeable

Environmental

Temp, operation	-30°C to 70°C (-22°F to 158°F) full performance
Temp, storage	-40°C to 85°C (-40°F to 185°F)
Humidity	95% non-condensing
Ingress Protection	IP40
Vibration, Impact	ISO 16750
Power transients	ISO 7637 Test level 4 (e-mark directives compliant)

Certifications

Communication	FCC Part 15 Subpart B, part 22/24 compliant

User Interface

LEDs	2 LEDs for Cellular/GNSS installation validation indication

Size

Dimensions	90.8 x 70.5 x 22.9 mm (3.57 x 2.78 x 0.90in)
Weight	130gr (4.59oz)

Installation

Mounting	Tie-wraps and/or double-sided adhesive
Connections	10-Pin wired

Features

Movement	3D Accelerometer
Use Cases	Basic Driver Behavior, Crash Detection, Immobilization, Driver Identification, Vehicle Tracking and Recovery
Capabilities	Trip Detection, Ignition Status (motion or ignition wire), Speeding, Idling, Odometer, BLE Sensor Integration, GPIO Integration, FOTA
Geofence	Up to 100 Geofences

Accessories

- 1-Wire (Dallas Reader/Temperature Sensor)
- BLE Sensors

Powerfleet (NASDAQ: PWFL; TASE: PWFL) is a global leader of internet of things (IoT) software-as-a-service (SaaS) solutions that optimize the performance of mobile assets and resources to unify business operations. Our data science insights and advanced modular software solutions help drive digital transformation through our customers' and partners' ecosystems to help save lives, time, and money. We help connect companies, enabling customers and their customers to realize more effective strategies and results. Powerfleet's tenured and talented team is at the heart of our approach to partnership and tangible success. The company is headquartered in Woodcliff Lake, New Jersey, with our Pointer Innovation Center (PIC) in Israel and field offices around the globe. For more information, please visit www.powerfleet.com.

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