

VEHICLE TELEMATICS

ASSET TRACKING

Powered Asset Gateway

Advanced Asset Tracking and Remote Sensing for Heavy Machinery

Description

The **Powered Asset Gateway** is an asset tracking solution that offers continuous, real-time visibility while in transit. It provides high-frequency reporting on the location, status, and condition of assets, along with accurate utilisation data to better plan and manage your assets.

The solution leverages constant external power for frequent reporting and includes a rechargeable battery for extended operation. It tracks engine hours (integrated with VisionLink) and provides preventative maintenance reminders to avoid unexpected breakdowns.

Additionally, it monitors critical events such as geofence entry/exit, dormant vehicles, and unauthorised movement, sending instant notifications for potential theft and asset recovery.

It seamlessly integrates with Powerfleet's Unity, the SaaS-based fleet intelligence platform that ingests, processes, and consolidates data from every asset, vehicle, and person, for better decision-making.



Key Features

- Europe LTE Cat-1 w/ 3G & 2G FB
- Real-time tracking of asset location, status and condition
- Preventive maintenance reminders
- Industry-leading begin/end of drive configuration and reporting
- Ignition status via dedicated wire or motion detection (95% accuracy)
- Optional 2-wire installation: only power and ground required
- Ruggedised IP67 rated enclosure
- Vehicle dual power with up to 20-month untethered battery*
- Tamper detection & reporting identify and alert on device removal
- Virtual odometer tracking and maintenance management monitoring
- Activation button for long shelf life and simple activation
- Extended operating temperature range -30°C to 70°C
- Geofence alerting
- Wireless sensor integration

* Based on 1 report per day



Engine hour monitoring
(integrated with VisionLink)



Rugged housing with IP67 rating



Advanced battery power preservation



Designed to Revolutionise Your Heavy Equipment Operations

The **Powered Asset Gateway** provides a wide range of asset tracking and management features to transform your operations:

- Improve productivity and utilisation
- Reduce operating costs
- Mitigate liability
- Extend asset life
- Lower insurance and operating costs
- Recover damage and misuse expenses
- Achieve sustainability goals
- Improve security and theft recovery
- Adhere to compliance standards

Technical Specifications

Communications

Cellular Technology	LTE CAT-at 1 NA with 3G Fallback LTE Cat AT-1 EU with 3G and 2G Fallback Internal Antenna US - Quad-Band LTE: Bands 2, 4, 5, 12 (700, 850, 1700/2100 (AWS) and 1900 MHz) EU - LTE: Bands 1, 3, 8, 20, 28 (700, 800, 900, 1800, 2100 MHz), Dual-Band UMTS/HSPA+: Bands 8, 1 (900, 2100 MHz), Dual-Band GSM 900 and 1800 MHz
Cellular Data Rates	Download 20 Mbps, Upload 15 Mbps
SIM	Nano (4FF) SIM Card Size, Internal

BLE

BLE Technology	BLE 4.0 / 2.4GHz Qualcomm CSR1010A05-IQQM-R
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Global Positioning

Type	Internal Module CSR SiRFstarV™ based -165dBm
Sensitivity	-165 dBm
DGPS	< 3m 90% Circular Error Probability
TTF @ -130dB	Cold <27 Sec, Warm <10 Sec, Hot <1 Sec
Internal Antenna	Internal

Power

Input Voltage	4.2V 1A CCCV Charger or 9-32V DC
Internal Battery	Li-Polymer, 3.7V, 5.3Ah, Rechargeable
Consumption	380 uW Sleep

Technical Specifications (cont'd)

Inputs & Outputs

Communication	Each I/O port supports: <ul style="list-style-type: none">• Discrete Dry Input• Discrete Wet Input• Analog 0-2.5V Input• Analog 0-30V Input• Frequency Counter Input• Discrete Dry – Ground sensing. Configurable ground threshold• Discrete Wet – Logic 1 and 0 configurable thresholds• Analog inputs with variable resolution:<ul style="list-style-type: none">– 8-bit - 0-2.5V: 20 mV resolution, accuracy ± 30 mV;– 8-bit - 0-30V: 100 mV resolution, accuracy ± 100 mV– 12-bit - 0-2.5V: 3mV resolutions, worst case accuracy <10mV, max 20mV– 12-bit - 0-30V: 8mV resolution, worst case accuracy <40mV• Frequency counters - Up to 5kHz input signal; Signal level ($3V < V_{in} \leq 30V$); Accuracy $\pm 2\%$
Outputs	Open collector
Configurable I/Os	2x Configurable GPIO

Environmental

Temp, operation	-30°C – 70°C, -20°C – 60°C
Temp, storage	-20°C – 60°C
Humidity	ISO 16750 parts 3 & 4
Ingress Protection	IP67
Vibration, Impact	ISO 16750 parts 3 & 4

Certification

Communication	Part 15 Subpart B, part 22/24 compliant, PTCRB
Electromechanical	CE Safety EN60950-1:2001+A11:2004
Regional	ICES-003, Issue 5:2012 Class B. CAN/CSA-CEI/IEC CISPR 22:10

Technical Specifications (cont'd)

User Interface

LEDs	2x dual colored LED status indication
Display	Activation / Distress Button

Size

Dimensions	~155 mm x ~81mm x ~45 mm
Weight	330 gr

Installation

Mounting	Front, Under
Connections	Tractor Power 9-32V DC, 2-Pin or 8-Pin, Automotive

Features

Movement	3D, $\pm 8g$ range, 12-Bit Representation, 4 mg Resolution Movement Detection
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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.