VEHICLE TELEMATICS   ASSET TRACKING

Powered Asset Gateway

Advanced Asset Tracking and Remote Sensing for Heavy Machinery

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

LTE
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)

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

Geofence alerting and wireless sensor integration

Engine hour monitoring (integrated with VisionLink)

Advanced battery power preservation

Extended operating temperature range -30°C to 70°C

Based on 1 report per day

Optional
2-wire
installation: only power and ground required

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

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Technical Specifications

Communication

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

Global positioning

Type	Internal Module CSR SiRFstarV™ based -165dBm
Sensitivity	-165 dBm
DGPS	< 3m 90% Circular Error Probability
TTFF @ -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, Rrechargeable
Consumption	380 uW Sleep

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Technical Specifications (cont'd)

Inputs & outputs

Communication	Each I/O port supports:
	• 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:
	    – 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 < Vin ≤ 30V); Accuracy ±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

Certifications

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

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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, ±8g range, 12-Bit Representation, 4 mg Resolution Movement Detection

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