

VEHICLE TELEMATICS

Vehicle Gateway Enterprise

Intelligent Fleet Management with Dual CAN Interface

The **Vehicle Gateway Enterprise** is part of an advanced fleet management solution that utilises a smart algorithm to combine data from various vehicle environment interfaces. Based on the LTE network, it supports multiple standard protocols and interfaces simultaneously, using two separate CAN channels that enable driver identification, serial communication with third party devices, a wide range of measurement ports, and more.

All these interfaces are designed and configured for maximum flexibility with CAN data aggregation, filtering, processing, and event triggering.

Our Vehicle Gateway Enterprise provides advanced multi-source data, which is ingested into Unity, Powerfleet's fleet intelligence platform.

Unity's Cognitive Data Engine cleanses, harmonizes, and enriches this data to provide you with realworld, actionable insights to lower fuel consumption, reduce warranty expenses, increase safety habits, and optimize maintenance processes.



Key features



LTE CAT M1 WW with 2G fallback
LTE CAT-1 with 3G/2G fallback (LATAM)



Plug and play connectivity and Onboard Driver ID



Comprehensive and evolving vehicle library support



BLE 5.2 (BLE is available on the CAT-M variant only)



Onboard Driver ID Storage



Prepare ESG reports with carbon emissions reporting



Customisable CAN data rules engine to configure collection of vehicle diagnostics and AutoCAN for automatic vehicle model configuration



Advanced crash detection and reconstruction



Analyse fuel and energy usage for budget planning and fuel consumption calculation



Designed to Revolutionise Your Fleet Operations

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



Reduce safety incidents



Shrink operating costs



Mitigate liability



Increase longevity of assets



Achieve sustainability goals



Adhere to compliance standards



Technical Specifications

Communication

Cellular Technology	LTE CAT M1 WW with 2G Fallback 4G Bands: CAT M1: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B26, B28 2G Bands: GSM850, GSM900, DCS1800, PCS1900 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
SMS	PDU, text SMS for data forwarding

BLE

BLE Technology	Bluetooth® 5.2 Low Energy Serial over BLE (BLE is available on the CAT-M variant only)
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Global Positioning

Type	GNSS
Sensitivity	High sensitivity: -165dBm during tracking, -148dBm during acquisition
DGPS	DGPS, SBAS (WAAS/ EGNOS/ MSAS/ GAGAN)
TTFF @ -130dB	Cold Start: <30s, Warm Start: <2s, Hot Start: <2s Cold <35Sec, Warm<35Sec, Hot<1Sec
Internal Antenna	On board
External Antenna	Optional

Inputs & Outputs

Inputs	4 (6 for CAT-1 Variant)
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Technical Specifications (cont'd)

Outputs	4
Configurable I/Os	2 (0 for CAT-1 Variant)
Ignition	Yes
1-Wire	Bus mode; Dallas Button, Proximity Reader, Temperature Sensor, Keypad

Interfaces

COM port	1 x RS232
J-1708	1
USB	1 x Micro USB (Type B)
CAN	2xCAN HS interface CAN FD HW readiness CAN-H, CAN-L signals J1939 Standard Data Bus Interface ISO 15765 for OBDII connectivity ISO 11783 Standard Data Bus Interface
Single Wire CAN	1
K-Line interface	A bi-directional one-wire-bus interface compliant with ISO 9141-2 and ISO 14230 1&2

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)

Technical Specifications (cont'd)

Certifications

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

Dimensions	104 × 86 × 26.9mm (4.09 × 3.39 × 1.06in)
Weight	140gr (4.94oz)

Installation

Mounting	Tie-wraps and/or double-sided adhesive
Connections	14-Pin, 18-Pin, OBD-II, or J1939

Features

Mounting	3D Acceleromete
Use Cases	Driver Behaviour, Crash Detection, Eco Scoring, Safety Scoring, Immobilisation, Driver Identification (Dallas, iButton, Keypad), Car Sharing, Proactive Maintenance and Remote Diagnostics
Capabilities	Trip Detection, Ignition Status (motion or ignition wire), Speeding, Idling, Odometer, Fuel, DTC, Extensive CAN Bus Data, AutoCAN Configuration, BLE Sensor Integration, GPIO Integration, FOTA
Geofence	Up to 100 Geofences

Accessories

Contactless Adaptor | 1-Wire Proximity Reader | 10-Digit Keypad | 1-Wire Dallas Reader
1-Wire Temperature Sensor | BLE Sensors

Powerfleet (Nasdaq: PWFL; JSE: PWR; TASE: PWFL) is a global leader in the artificial intelligence of things (AIoT) software-as-a-service (SaaS) mobile asset industry. With more than 30 years of experience, Powerfleet unifies business operations through the ingestion, harmonisation, and integration of data, irrespective of source, and delivers actionable insights to help companies save lives, time, and money. Powerfleet’s ethos transcends our data ecosystem and commitment to innovation; our people-centric approach empowers our customers to realise impactful and sustained business improvement. The company is headquartered in New Jersey, United States, with offices around the globe. Explore more at www.powerfleet.com.