CONTAINER, CHASSIS, AND TRAILER TRACKING   ASSET TRACKING

Logistics Gateway

Advanced Asset Tracking and Remote
Sensing for Constant Visibility

Description

The **Logistics Gateway** is an asset tracking product that provides continuous real-time visibility while in transit. This includes high-frequency reporting on the location, status, and condition of assets (e.g., dry van, reefer trailers, chassis, flatbed trailers, etc.) and freight, in addition to more accurate arrival and departure information to better plan and manage supply chain resources.

The Logistics Gateway leverages constant external power for frequent tethered reporting. It also features long-lasting, rechargeable battery with extended operation, making it suitable for monitoring cargo state changes and movements in yards and terminals. Optional wireless sensors offer enhanced visibility into cargo images, status, as well as asset condition reporting, including loaded/ empty status, container mounting, transit/idle status, and more.

Powerfleet's Logistics Gateway integrates with Unity, the SaaS-based fleet intelligence platform that ingests, processes, and consolidates data from every asset, vehicle, and person. Through advanced data intelligence, Unity unifies business operations.

Key Features

- North America LTE Cat-1 w/ 3G FB, Europe LTE Cat-1 w/ 3G & 2G FB
- Integrated container mount sensing/reporting
- Cargo & temperature sensors and tire inflation system (idle and transit airing) monitoring support
- Industry leading begin/end of drive configuration and reporting
- Ruggedized IP67 rated enclosure
- ABS/ECU and 7-way connection for quick & simple installation
- Vehicle dual power with up to 20-month untethered battery*
- Tamper detection & reporting identify and alert on device removal

* Based on 1 report per day

- 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

Chassis monitoring – container on/off reporting

Cargo camera – loaded/empty & percent loaded

Advanced battery power preservation

Designed to Revolutionize Your Logistics Operations

The **Logistics Gateway** provides a wide range of asset and freight management features, along with optional sensors to revolutionize your logistics operations:

- Improve productivity and utilization
- 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

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

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

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

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

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

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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