

MATERIAL HANDLING TELEMATICS

Forklift Gateway

Forklift Fleet Operation Management and Access Control

Description

The **Forklift Gateway** provides wireless, automated tracking, monitoring, management and control of powered industrial vehicles and the operators who use them.

The device is securely mounted and seamlessly integrated into forklifts or other industrial vehicles. It effectively manages access privileges, determining who, when, and how individuals can interact with the vehicle, all based on the unique driver identification.

Upon successful authentication, the Forklift Gateway enforces mandatory pre-use inspections, guaranteeing adherence to safety protocols. It connects to an impact sensor mounted on the forklift frame to detect damage, and continuously monitors forklift activity data for maintenance controls.

The solution enhances material handling safety and cost reduction by ensuring accountability for the forklift use, optimizing equipment placement, and measuring vehicle maintenance and utilization.

The Forklift Gateway can integrate with Powerfleet's SaaS-based fleet intelligence platform that ingests, processes, and enriches data from every asset, vehicle, and person, and helps realize improved maintenance and performance.



Key Features

- Three product models are available based on different communication methods: Bluetooth, Cellular and Wi-Fi
- Bluetooth model enables communications with Powerfleet's Control Center application running on an iPad or iPhone with automated data collection from your nearby (<30 meters) fleet
- Wi-Fi and Cellular devices provide comprehensive data collection for in-depth analysis through Powerfleet Infomatics software
- Language support for English, German, Spanish, and French provides easy comprehension and better adoption for operators
- Optional sensor connections (impact, seat belt, seat switch)
- Rugged construction withstands harsh environmental conditions
- Impact management with reduction in false alarms, background reporting, visual and audible alerts, truck shutdown and self-policing
- Automatically records and uploads/downloads key vehicle/ operator data including login time, checklist responses, usage hours and impacts.
- Relays (numeric code or RFID card) control vehicle ignition and starter for authorized operators



Easily installs on virtually any industrial vehicle (pallet jacks, scissor lifts, sweeper/scrubber, etc.)



Provides electronic safety checklists via color display



Designed to Revolutionize Your Material Handling Operations

The **Forklift Gateway** offers a broad array of business-relevant features designed to digitalize and revolutionize your material handling operations:

- Shrink operating costs
- Increase safety
- Mitigate liability
- Adhere to compliance standards
- Increase longevity of assets
- Protect brand reputation
- Boost employee morale

Technical Specifications

Communication

Cellular Technology	LTE CAT-1, AT&T carrier (North America only) 4G Bands: CAT M1: B2, B4, B12
Cellular Data Rates	Uplink up to 5Mbps, downlink up to 10Mbps
SIM	Micro SIM, Internal, Non-replaceable
Wi-Fi Standards	802.11 b/g/n
Wi-Fi Frequencies	2.412-2.484 GHz 5.18-5.32 GHz; 5.5-5.825 GHz
Wi-Fi Channels	1-11 (US); 1-13 (EU); 1-14 (JPN); 36-64, 100-165 (US/EU)
Wi-Fi Range	Up to 300 ft (100 m)
Wi-Fi WLAN Security Settings	Open, WEP-64, WEP-128, WPA- PSK (TKIP), WPA2-PSK (AES)
Antenna	Internal

BLE

BLE Technology	Bluetooth® 4.2 Low Energy Serial over BLE
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Global Positioning

Type	GNSS
Internal Antenna	On-board

Inputs & Outputs

Inputs	3
Outputs	1
Configurable I/Os	4

Technical Specifications (cont'd)

Power

Input Voltage	9-60VDC (up to 72VDC with external voltage converter)
Internal Battery	Coin Cells: 5 years typical life
Consumption	450mA (active mode), ~2mA (sleep mode)

Environmental

Temp, operation	-40 C to +80 C
Temp, storage	-40 C to +80 C
Humidity	95% non-condensing
Ingress Protection	IP67
Vibration, Impact	Vibration: 12.6 G RMS random vibration (MIL-STD-810G) Shock: 20 G and 40 G, 11 msec sawtooth pulse (MIL-STD-810G)
Power transients	IEC EN61000-4-5

Certifications

Communication	FCC Part 15 Subpart B
Electromechanical	CE
Sustainability	RoHS (IEC 63000)

Data Retention

Memory	2 weeks of data storage while disconnected (typical activity rate)
Clock	Real-time

Technical Specifications (cont'd)

User Interface

LEDs	1 LED indicator
Display	Color TFT, 320 x 240 pixels
User Authentication	Keypad ID entry or Contactless ID reader (125Khz HID IDs)

Size

Dimensions	4.07" x 3.52" x 1.83" (103.5 x 89.5 x 46.5 mm)
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Installation

Mounting	RAM Mounts Bracket
Connections	10-Pin wired

Accessories

- Alarm Lights and Sounders
- DVR with Cameras
- Safety Lights
- Weigh Scales

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.