

CONTAINER, CHASSIS, AND TRAILER TRACKING ASSET TRACKING

Logistics Gateway – Solar

Standalone, Multi-Power Asset Management and Wireless Sensor Gateway for Easy Installation and Maintenance-Free Operation

The **Logistics Gateway – Solar** is a self-contained, multi-powered asset tracking and wireless sensor gateway, featuring solar operation/recharge, supercapacitor rechargeable power, and primary battery backup. This combination provides enhanced flexibility and ensures years of maintenance-free performance.

The Logistics Gateway – Solar establishes a seamless wireless connection with our FreightCam and other wireless sensors, enabling a comprehensive view of the cargo and capturing essential operational and environmental data such as tyre pressure monitoring, temperature, humidity, shock, cargo tag, and more.

The Dual-mode version of the Logistics Gateway -Solar, also incorporates bidirectional Iridium® satellite communication as a fallback when CAT-1/LTE cellular communication is unavailable.

This dual-mode communication ensures uninterrupted coverage in scenarios where there are coverage gaps due to rural networks, crossborder/network operation, or adverse conditions like natural disasters and extreme weather.

Powerfleet's Logistics Gateway - Solar, integrates with Unity, our 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



4G/LTE CAT-1 NA with 3G fallback,
4G/LTE CAT-1 EU with 3G and 2G Fallback



Multifunction Wireless Sensor Hub



Solar-charged supercapacitors and Lithium primary battery backup



Optional FreightCam image cargo sensor with wireless integration



Long service life and low maintenance



10-minute fully external/loaded install



Magnetic switch for activation/panic



LED indicator lights for install verification



Tamper detection and alerts. Configurable and fully programmable



IP65 – suitable for rough, outdoor environmental conditions



Designed to Revolutionise Your Logistics Operations

The **Logistics Gateway - Solar** offers a broad range of business-relevant asset and freight management features designed to revolutionise your logistics operations:



Avoid cargo loss



Ensure asset visibility



Increase utilisation



Enhance productivity



Improve driver satisfaction



Reduce operating costs



Reduce fuel consumption



Reduce theft



Achieve sustainability goals



Drive continuous improvement



Technical Specifications

Communication

Cellular Technology	4G/LTE Cat 1CAT-1 NA with 3G Fallback LTE NA: Bands 2, 4, 5, 12 (700, 850, 1700/2100 (AWS), 1900 MHz) Data rates: 10.2[DL] / 5.2[UL] Mbps 3G NA: UMTS Bands 5, 4, 2 (850, 1700/2100 (AWS), 1900); HSPA 5.76[UL]/7.2[DL] Mbps LTE Cat 1CAT-1 EU with 3G and 2G Fallback
Cellular Data Rates	Download 20 Mbps, Upload 15 Mbps
SIM	Internal, Micro (3FF) SIM replaceable, 1.8/3V Optional SIM on chip Remote PIN code management
Satellite	Iridium satellite modelm and network

BLE

BLE Technology	2.4 GHz proprietary wireless interface for sensor integration/ Transmission power – 8 dBm Line of site – 100 m minimum
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Global Positioning

Type	Internal module CSR SiRFstarV™ based GPS and GLONSS supported
Sensitivity	-165 dBm
TTFF @ -130dB	Cold <27 Sec, Warm <10 Sec, Hot <1 Sec
Internal Antenna	Internal

Power

Input Voltage	Monocrystalline, two panels sized 110 × 80 mm Max 2.4 W @STC, charging the 200F supercapacitor
Internal Battery	Primary: Lithium-Thionyl Chloride (SOCl ₂), 3.6V, 34 Ah, Super Cap: 200F, 5.4V

Technical Specifications (cont'd)

Environmental

Temp, operation	-30°C to +75°C
Temp, storage	0°C to 30°C (battery limitation)
Ingress Protection	IP 69k & IP 67
Vibration, Impact	AAR S5703 Railroad Electronics Environmental Requirements MIL-STD-810E

Certifications

Communication	Part 15 Subpart B, Part 22/24/27; Part 15 Subpart C PTCRB, ATT
Regional	ICES-003, Issue 5:2012 Class B CAN/CSA-CEI/IEC CISPR 22:10 RoHS 3 Directive 2015/863 Compliant Conflict Mineral directives UL94-5VA

Size

Dimensions	110.7 mm x 44.8 mm x 488.7 mm
Weight	Solar: 1,300 gr; Solar + Satellite: 1,312 gr

Features

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