

Logidot

Track · Analyse · Optimise

REAL-TIME ASSET TRACKING

OPTIMISE YOUR WAREHOUSE OPERATIONS WITH REAL-TIME TRACKING

Logidot helps managers increase the efficiency of their material handling operations, gain real-time visibility of their tools and fleet, enforce safety and reduce operational costs.

By combining our state-of-the-art indoor/outdoor location tracking sensors and IOT platform, we offer unrivalled access to operational data and insights. Thus we help you continuously improve your processes and stay competitive.

Logidot's uniquely accurate, plug&play and low-cost solution helps you track, analyse and optimise your operations in realtime.

Applications



Inventory
Management



People Safety



Quality
Control



Process
Automation



Fleet
Management



Tool
Monitoring



Training and
Compliance Monitoring



Workflow
Scheduling



Dynamic
Routing

and many more...

General Specifications



HIGH ACCURACY INDOOR (UWB ± 10 cm)
AND OUTDOOR (GPS 1m) LOCATION TRACKING



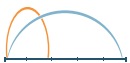
FLEXIBLE COMMUNICATION 3G/4G,
WiFi 802.11 B/G/N OR ETHERNET



UP TO 10Hz UWB AND 100 Hz IMU
UPDATE RATES



WIRELESS AND BATTERY POWERED WITH
MANY MONTHS OR YEARS OF AUTONOMY



STATE OF THE ART SIGNAL PROCESSING
AND SENSOR FUSION



INTEGRATED SENSORS
EG MOTION, SHOCK, ACCELERATION,
ORIENTATION, TEMPERATURE AND MAGNETIC

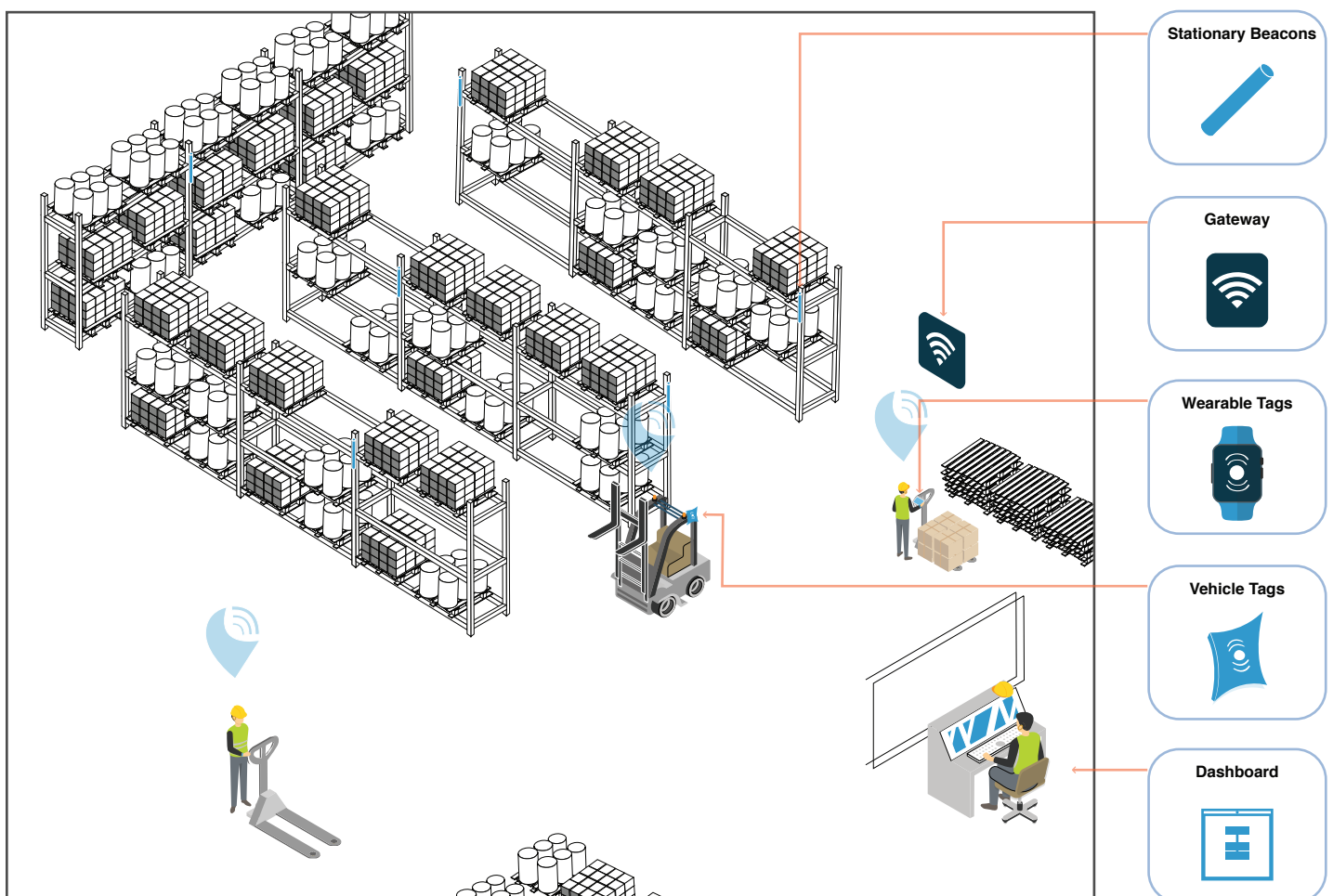


MADE FOR HARSH ENVIRONMENTS WITH
IP67 CASING AND CONNECTORS



WIRED OPTION WITH FLEXIBLE
POWER INTERFACE (10-55V DC)
AND 100-220V AC

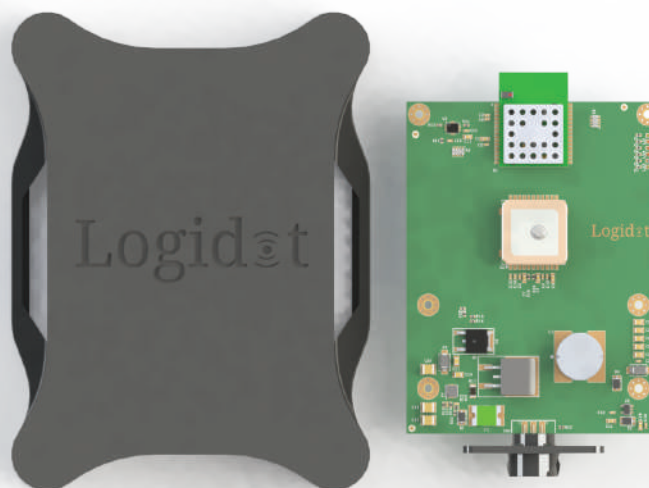
Installation / Deployment



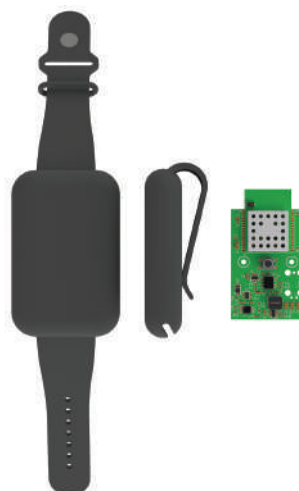
Anchor



Vehicle Tag



Wearable Tag



Hardware Specifications

General Considerations

Positioning

3D accuracy [R95] (cm)	< 30
Update frequency (Hz)	10
Max range (m)	65 or 150 <i>with optional antenna</i>
RTLS approach	Ultrawideband (UWB) IEEE802.15.4-2011 Localisation via two-way ranging (TWR) or time-difference-of-arrival (TDoA)
Data Interface	Flexible communication for gateway via 3G/4G/5G, WiFi 2.4GHz (802.11g) and Ethernet and tags via 6.5 Ghz RF and Bluetooth 5.1
GNSS (optional)	Multiband differential GPS
Antenna type	360 deg omnidirectional
Operating frequency	6 frequency bands from 3.4 GHz to 6.5 GHz
Sensor fusion	9-axis IMU, GPS

Environmental

Operating Temperature (°C)	-20... +60 <i>operating</i> -40... +85 <i>storage</i>
Protection level	IP67 (outdoors) and IP54 (indoors)
Certification	UL, CE

Gateway

Power Supply	Flexible power interface <i>PoE</i> , 9-36V DC, 110-220V AC
Energy consumption (W)	20
Dimension (mm)	300 x 230 x 150
Weight (g)	2000

Anchor

Integrated Sensors	UWB
Energy consumption (mW)	< 20
Dimension (mm)	100 x 60
Weight (g)	100 <i>Anchor</i> + 600 <i>Default battery</i>

Vehicle Tag

Indicators	1 Actuator + 1 Sensor <i>by default, extendable</i>
Integrated Sensors	UWB, 9-Axis IMU, GPS
Energy consumption (W)	5.5
Dimension (mm)	130 x 100 x 35
Weight (g)	150 <i>Device</i> + 1200 <i>Battery (optional)</i>

Wearable Tag

Integrated Sensors	UWB, 9-Axis IMU
Energy consumption (mW)	15
Dimension (mm)	67 x 44 x 15
Weight (g)	< 100

Platform Specifications

Support

Database	Amazon Web Services Cloud or on-premise database
Integration	Available REST APIs for on-premise service integration WMS/ERP/MES plugins for the most common providers or integration on demand
Web (browser)	Internet Explorer 9+, Edge, Chrome, Firefox, Opera, Safari
Apps (mobile)	IOS & Android

Availability & Security

Latency	5 min. to analytics 3s for live view
Security	Standard enterprise grade encryption with end-to-end web security based on SSL
Installation	Flexible mounting screws, magnets or straps
Safety	Daily backups
Uptime	High availability with up to 99% uptime Load balancing Industry standard compression Predictable and scalable infrastructure

Optimise your industrial logistics and production with real-time tracking

Logidot's smart solutions help track and analyse your warehouse and factory operations to provide you with the actionable insights needed to continuously improve the safety, efficiency and sustainability of your business.

