



**disrupt-X**

Leading Global IoT Solutions Platform

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# Product Catalogue

2023 - 2024

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# Company Profile

Located in the heart of Dubai, Disrupt-X has established itself as a pioneering force in the realm of Internet of Things (IoT) through our premier platform ALEF. We specialize in engineering versatile IoT solutions that transcend industry verticals.

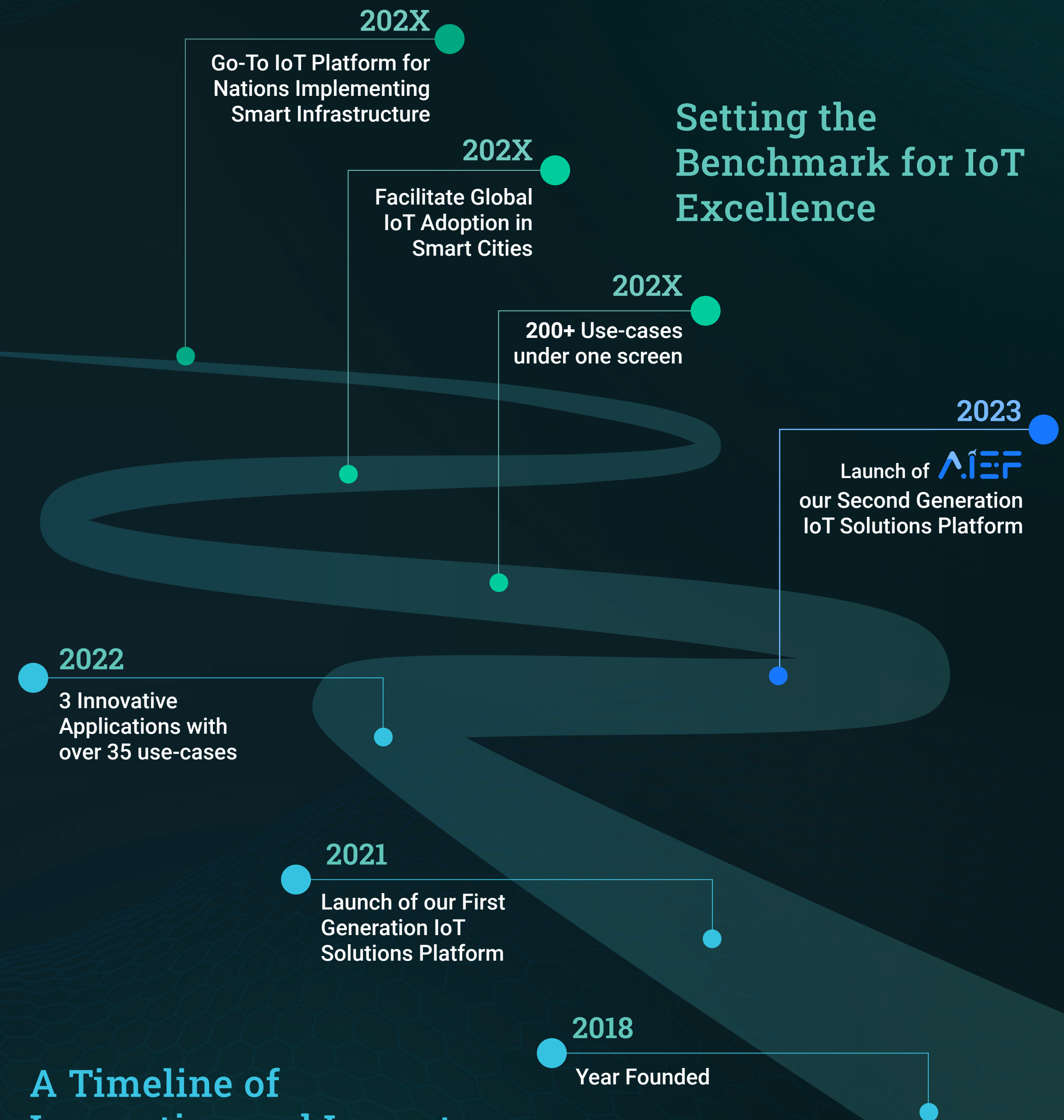


“Revolutionizing productivity with All-In-One IoT Solutions”

## INDUSTRY VERTICALS

<p>Buildings &amp; Infrastructure</p>	<p>Mobility &amp; Transportation</p>	<p>IT &amp; Telecom</p>	<p>Energy &amp; Environment</p>
<p>Smart Cities</p>	<p>Government</p>	<p>Healthcare</p>	<p>Retail</p>

## Setting the Benchmark for IoT Excellence



## A Timeline of Innovation and Impact





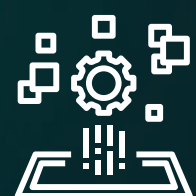
Crafted by Disrupt-X, is more than a mere upgrade from the Disrupt-X IoT Solutions Platform; it's a significant evolution. ALEF serves as a comprehensive ecosystem that revolutionizes the way organizations approach IoT.

Scan for more info.



## Device & Connectivity Management

Comprehensive visibility and control over all devices through a centralized user-friendly dashboard.



### Centralized Management

All IoT Devices across applications managed from a single place.



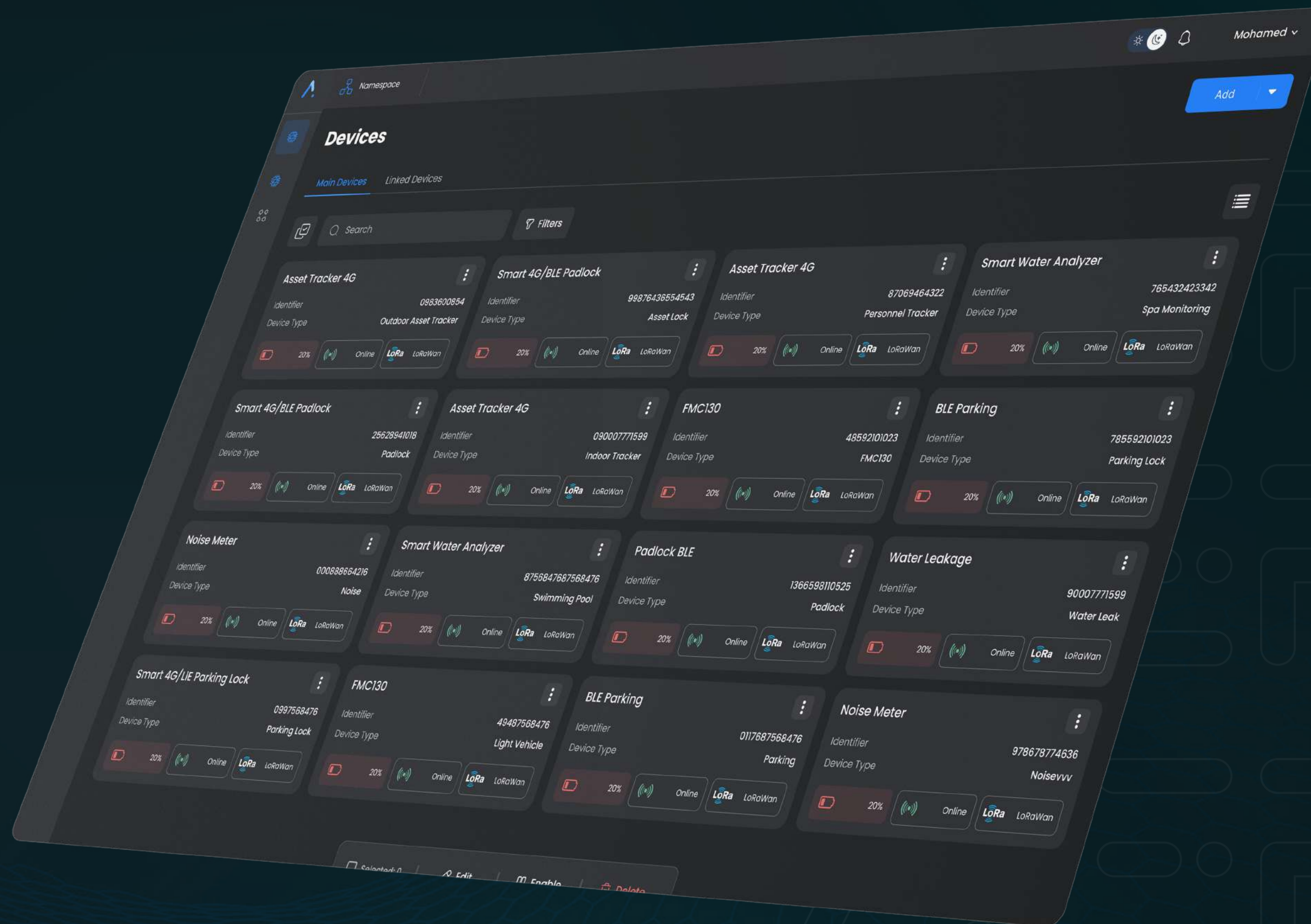
### Seamless Connectivity

Easily connect devices using different protocols.



### Bulk Device Integration

Quickly add multiple devices at once to save time and resources.



## Choose Your Preferred Deployment Method



### Cloud

Scale effortlessly, access from anywhere, and benefit from robust security without the hardware costs.



### On-Premise

Maintain complete data control, experience low latency, and customize security for compliance needs.



### Hybrid

Enjoy the scalability of cloud and control of your data on-premise.



## Asset Management



Seamlessly monitor a diverse range of assets and streamline asset management across various applications.



### Wide Asset Focus

Manages diverse assets, from facilities & machinery to human resources.



### Centralized Control

A unified space for managing all assets, linked to relevant applications for monitoring.



### User-Centric Design

Streamlines asset management for efficiency & enhanced user experience.

## Dashboard Builder



Offers unparalleled customization of diverse widgets from across the platform for a tailored user experience.



### Tailor-Made

Choose from a range of widgets to suit your analytical needs.



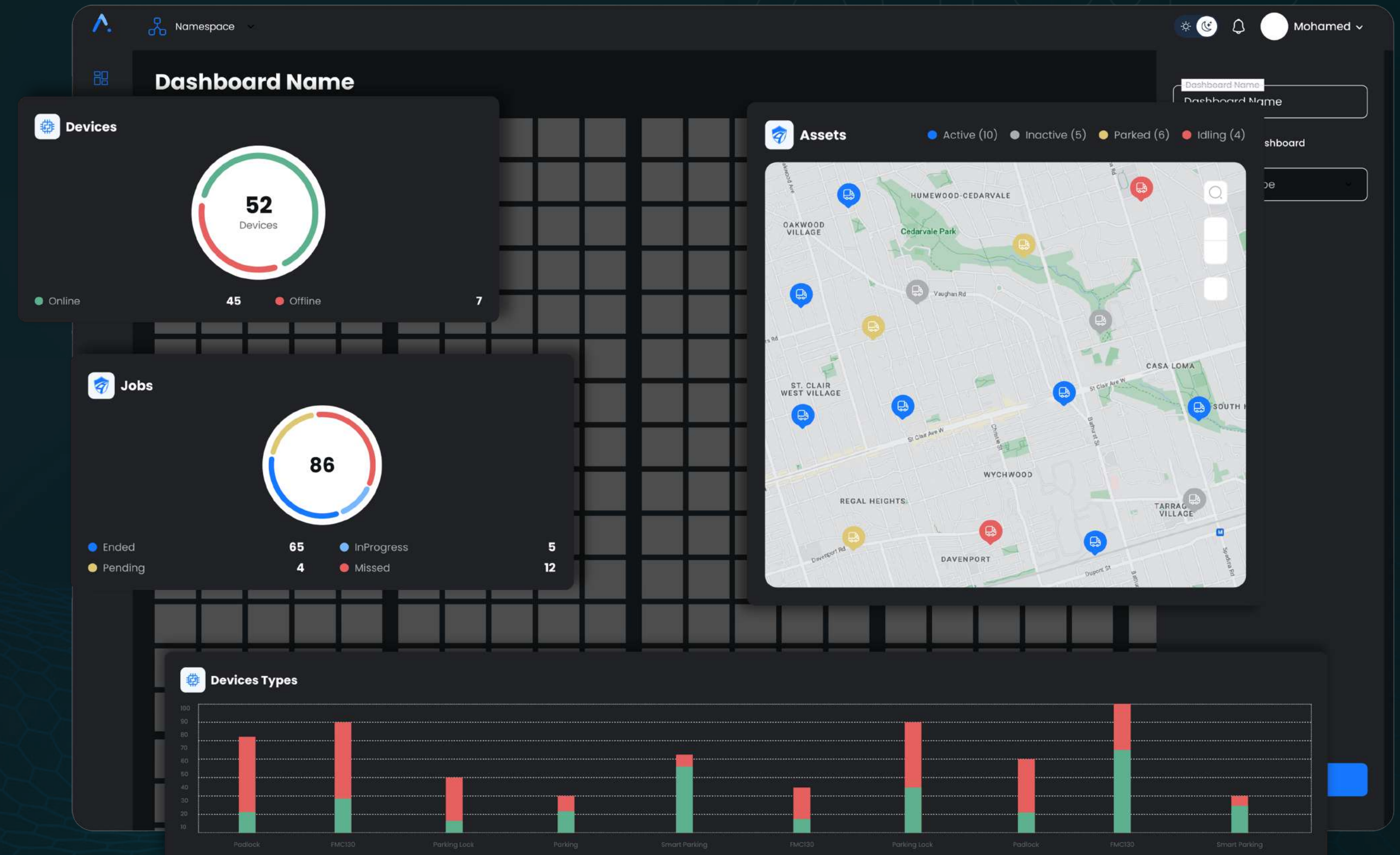
### Insightful

Turn complex data into understandable and actionable insights.



### One Dashboard

Combine data from different applications in a single view.







White Label

Branding is crucial in today's competitive landscape. ALEF offers extensive white labelling options, allowing you to customize the platform's look and feel to align with your brand identity. This creates a cohesive and personalized user experience, enhancing customer loyalty and brand recognition.

Scan for more info.

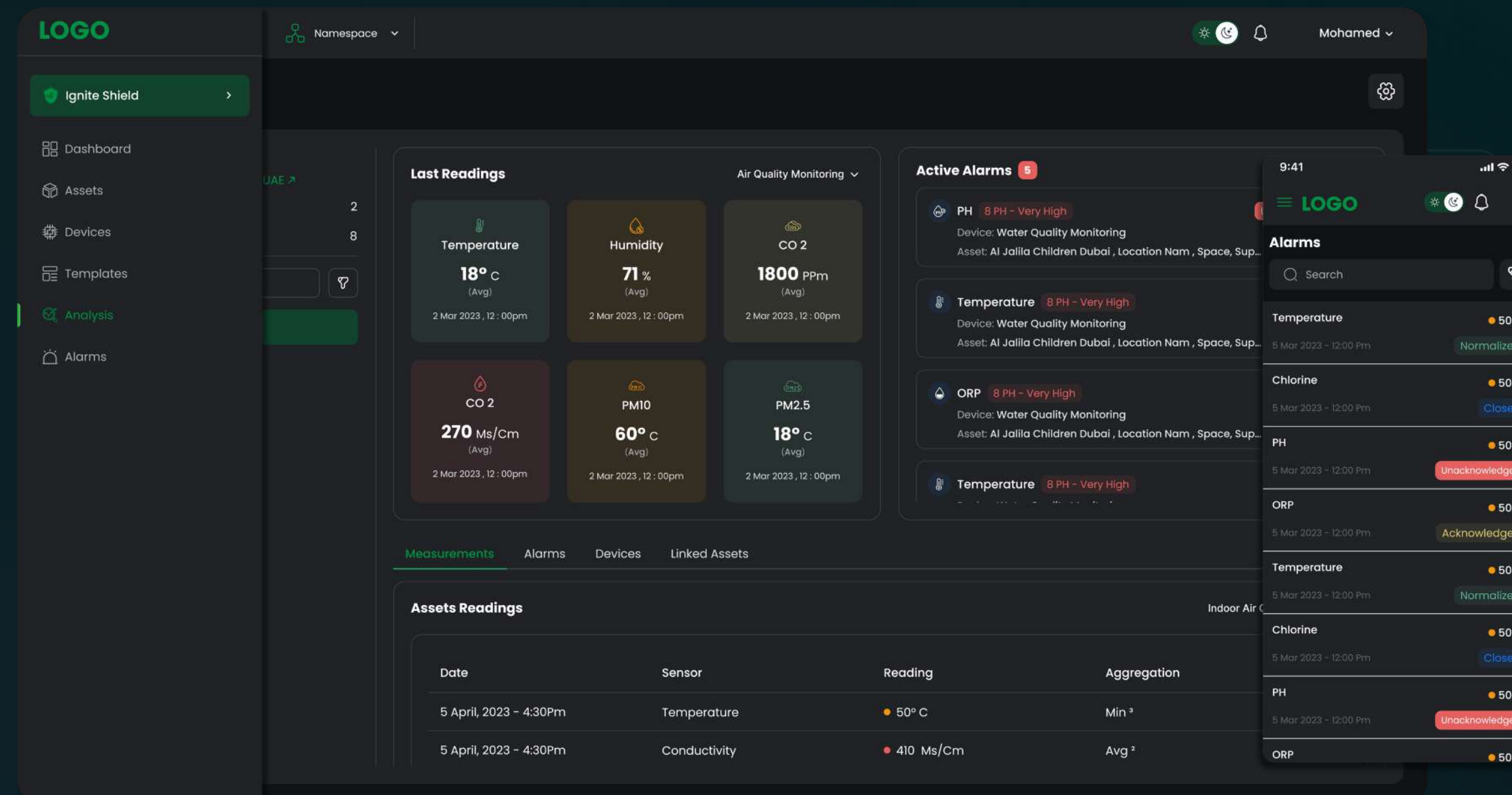


## PLATFORM SIGN-UP COST

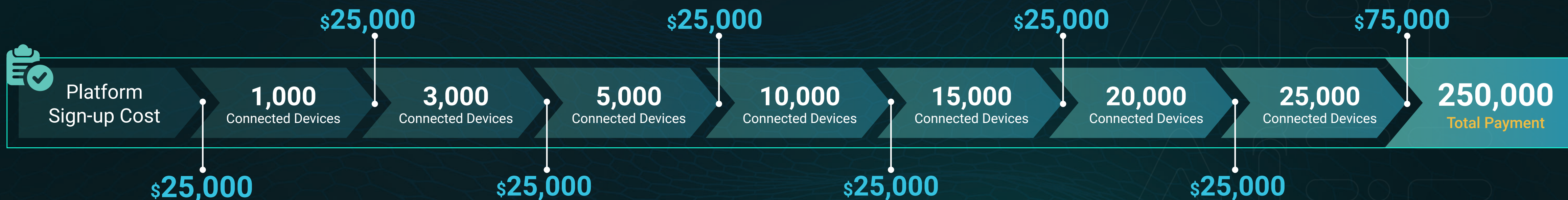
**\$25,000**

Annual Maintenance Contract Per Year

**\$45,000**



Scale as You Succeed: **Pay Only When Milestones are Met**







Software as a Service

More than just a LoRaWAN® Network Server, ALEF LNS offers seamless device management, comprehensive IoT features, and powerful performance, driving innovation and growth in your IoT ecosystem.

Scan for more info.



Versatile Connectivity



Smooth Integration



Fortified Security



High-Speed Data Processing



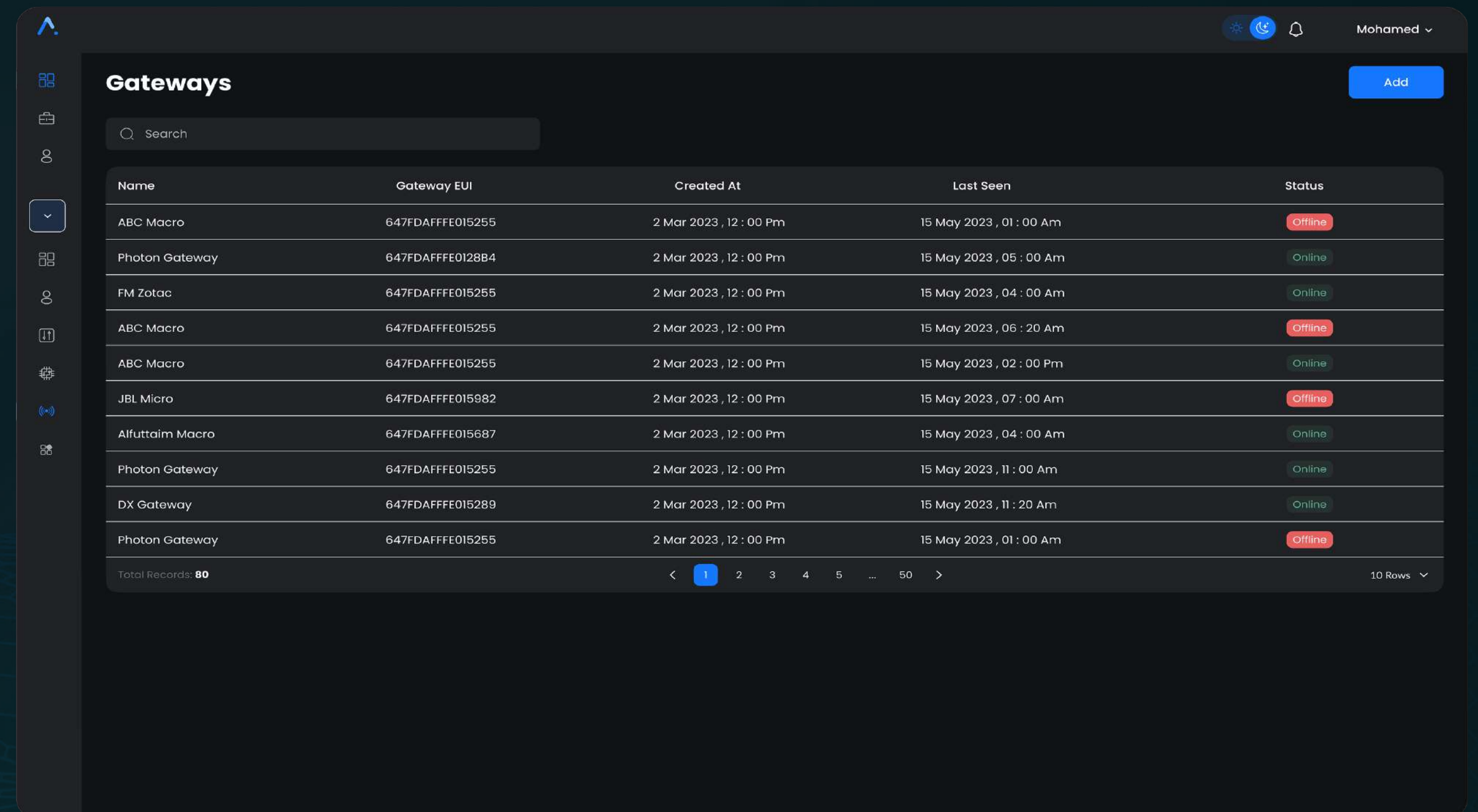
Efficient Device Management



Guarantees an SLA of 99.9%

## SaaS Pricing Per Device

Devices	Monthly	Yearly
1 to 100	<b>FREE</b>	<b>FREE</b>
101 to 1,000	<b>\$0.15</b>	<b>\$1.62</b>
1,001 to 10,000	<b>\$0.12</b>	<b>\$1.30</b>
10,001 to 25,000	<b>\$0.09</b>	<b>\$0.97</b>
25,001 to 50,000	<b>\$0.08</b>	<b>\$0.86</b>
50,000+	<b>\$0.06</b>	<b>\$0.65</b>





## Private Network Server

For clients who prefer a dedicated private network server instance, we offer an exclusive managed solution where our skilled team takes care of the setup, maintenance, and support. We empower our clients with a self-hosted solution that allows hosting of your private network server instance, providing you with a higher degree of control over your IoT infrastructure.

Scan for more info.



Versatile Connectivity



Smooth Integration



Fortified Security



High-Speed Data Processing



Efficient Device Management



Guarantees an SLA of 99.9%

## White Label Cost

**\$12,000 + \$10,000**

One Time Cost

Yearly AMC

**10,000** device licenses  
**FREE YEARLY**

Additional Licenses from  
**\$0.99** per device yearly

The dashboard displays the following data:

Category	Total	Online	Offline
Gateways	150	100	50
Devices	200	170	30

The Devices table lists the following items:

Name	Device EUI	Application EUI	Device Model	Last Seen	Status
Smart Room Sensor	AC1F09FFFE065D33	70B3D57ED001CD60	Smart Room Sensor Model	15 May 2023, 01:00 Am	Offline
Smart Room Sensor	AC1F09FFFE065D33	70B3D57ED001CD60	Smart Room Sensor Model	15 May 2023, 01:00 Am	Online
Home Sensor	AC1F09FFFE065D33	70B3D57ED001CD60	Home Sensor Model	15 May 2023, 01:00 Am	Online
ORCA	AC1F09FFFE065D33	70B3D57ED001CD60	ORCA Model	15 May 2023, 01:00 Am	Offline
Breeze	AC1F09FFFE065D33	70B3D57ED001CD60	Breeze Model	15 May 2023, 01:00 Am	Online
Smoke Detector 1	AC1F09FFFE065D33	70B3D57ED001CD60	Smoke Detector Model	15 May 2023, 01:00 Am	Offline
T100-A	AC1F09FFFE065D33	70B3D57ED001CD60	T100-A Model	15 May 2023, 01:00 Am	Online
Meeting Room Tablet 1	AC1F09FFFE065D33	70B3D57ED001CD60	Meeting Room Tablet Model	15 May 2023, 01:00 Am	Online
Tekzipark	AC1F09FFFE065D33	70B3D57ED001CD60	Tekzipark Model	15 May 2023, 01:00 Am	Online
Tekzipark	AC1F09FFFE065D33	70B3D57ED001CD60	Tekzipark Model	15 May 2023, 01:00 Am	Offline

The integration menu shows the following options:

- Aleef
- HTTP
- MQTT
- AWS SNS
- Azure service - bus
- GCP pub/sub
- IFTTT
- IFTTT
- myDevices
- myDevices
- Pilot things
- thingsBoard
- LoRa Cloud
- Semtech LoRa cloud



# CRACKING IoT

## CONFERENCE



LoRa Alliance®  
Approved

C-Level  
Executives

Global IoT  
Ecosystem

Via Invite  
Only

### WHY IT IS UNIQUE?



#### Global Perspective

With its chapters held in various locations worldwide, this event helps attendees understand different regional challenges, strategies, and developments.



#### Forward-Thinking Approach

The conference aims to equip its attendees with the knowledge and insights necessary to stay ahead in the ever-evolving IoT landscape.



#### In-Depth Discussion Panels

These panels dive deep into specific topics, allowing for detailed and thought-provoking discussions.



#### Networking Opportunities

Opportunity to network with industry leaders, experts from around the world leading to collaborations, partnerships, or simply the exchange of valuable ideas.



Chapter 1 – Dubai, UAE  
November 22, 2022

**300+**  
Attendees



Chapter 2 – Kuala Lumpur, Malaysia  
June 13, 2023

**500+**  
Attendees



Chapter 3 – Dubai, UAE  
October 13, 2023

**600+**  
Attendees

### UPCOMING CHAPTERS:

CRACKING IoT  
CONFERENCE CH.4

February 29, 2024 | Saudi Arabia

CRACKING IoT  
CONFERENCE CH.5

October 11, 2024 | UAE

CRACKING IoT  
CONFERENCE CH.6

February 2025

Scan for more info.





# Ignite Shield



Empower your facility with Ignite Shield, an advanced IoT solution revolutionizing facility and asset monitoring. With state-of-the-art technology and real-time data analysis, Ignite Shield provides unparalleled visibility and empowers you to make informed decisions.



Enhanced operational efficiency



Extend asset lifetime



Reduce facility management costs

## Solutions Included:



### Water Monitoring

- Swimming Pool Monitoring
- Water Tank Monitoring
- Spa Monitoring
- Water Pressure Monitoring



### Air Quality Monitoring

- Indoor Air Quality Monitoring
- Outdoor Air Quality Monitoring
- Odour Monitoring
- Air Pressure Monitoring



### Asset Monitoring

- Cold Storage Monitoring
- Noise Monitoring
- Agriculture Monitoring
- Level Monitoring
- Industrial Assets Monitoring
- Water Leakage Detection
- Smoke & Fire Detection
- Gas Detection

## Key Features:



Monitor Asset Parameters in Real-time



Customize Asset Threshold



View Analytics Based on Sensor Readings



Generate Customized Reports



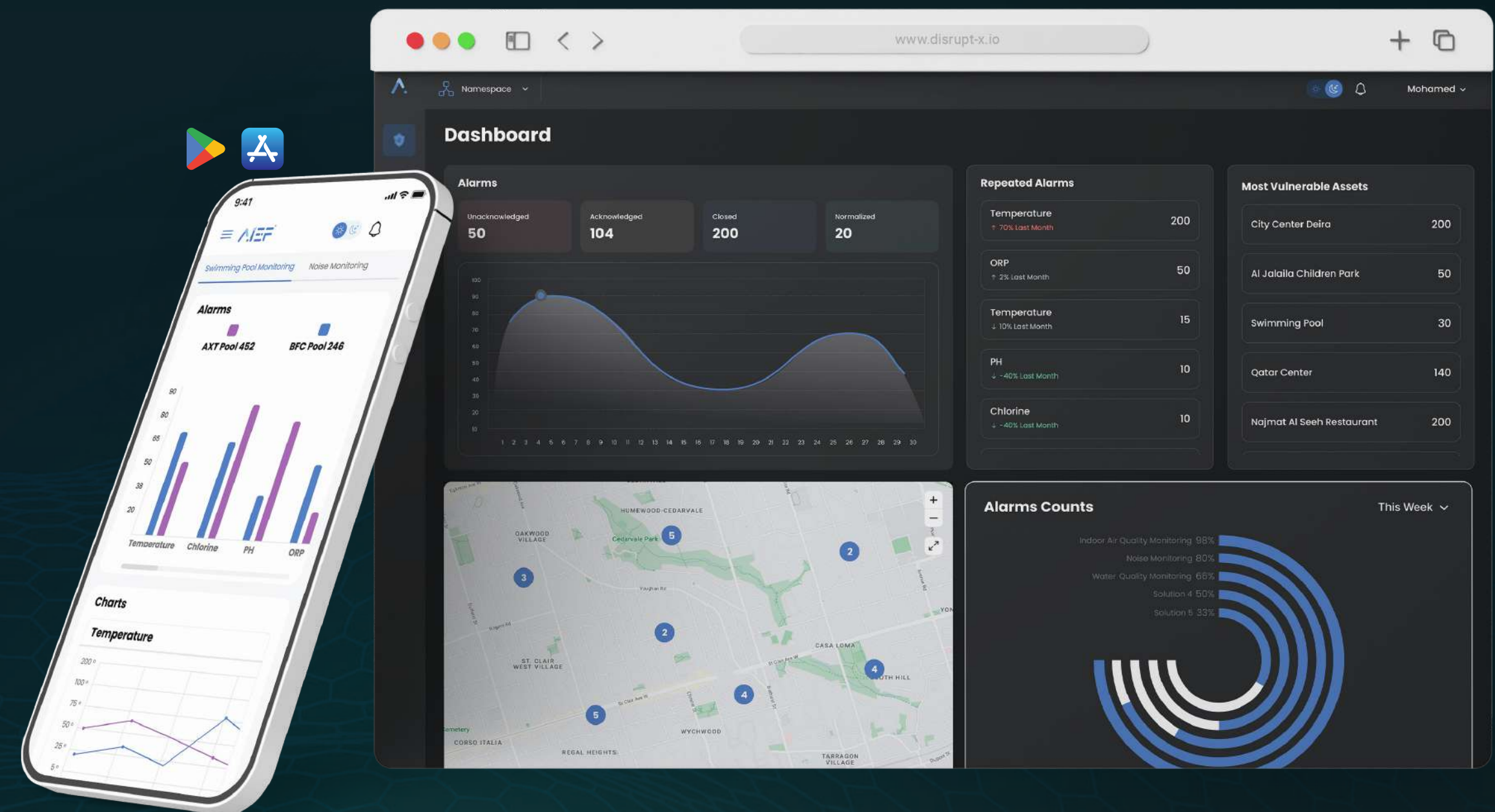
## Connectivity:



Scan for more info.



“Embrace the Power of IoT Innovation.”





# Indoor Air Quality

Monitor your indoor environment with IoT and track your indoor air quality in real-time. Our advanced monitoring systems ensure that you have a healthy and comfortable space to live, work, and breathe in.

## Why monitoring IAQ is important?



Health & Well-being



Preventive Measures



Enhances Productivity



Detection of Pollutants



Preservation of Property



Regulation of Humidity



Protection of Vulnerable Groups



Regulatory Compliance



Poor Indoor Air Quality is a killer lurking in the shadows.  
**DON'T LET YOUR OFFICE  
 BECOME A GAS CHAMBER!**

## Key Features:



Indoor Air Quality  
Parameter  
Monitoring



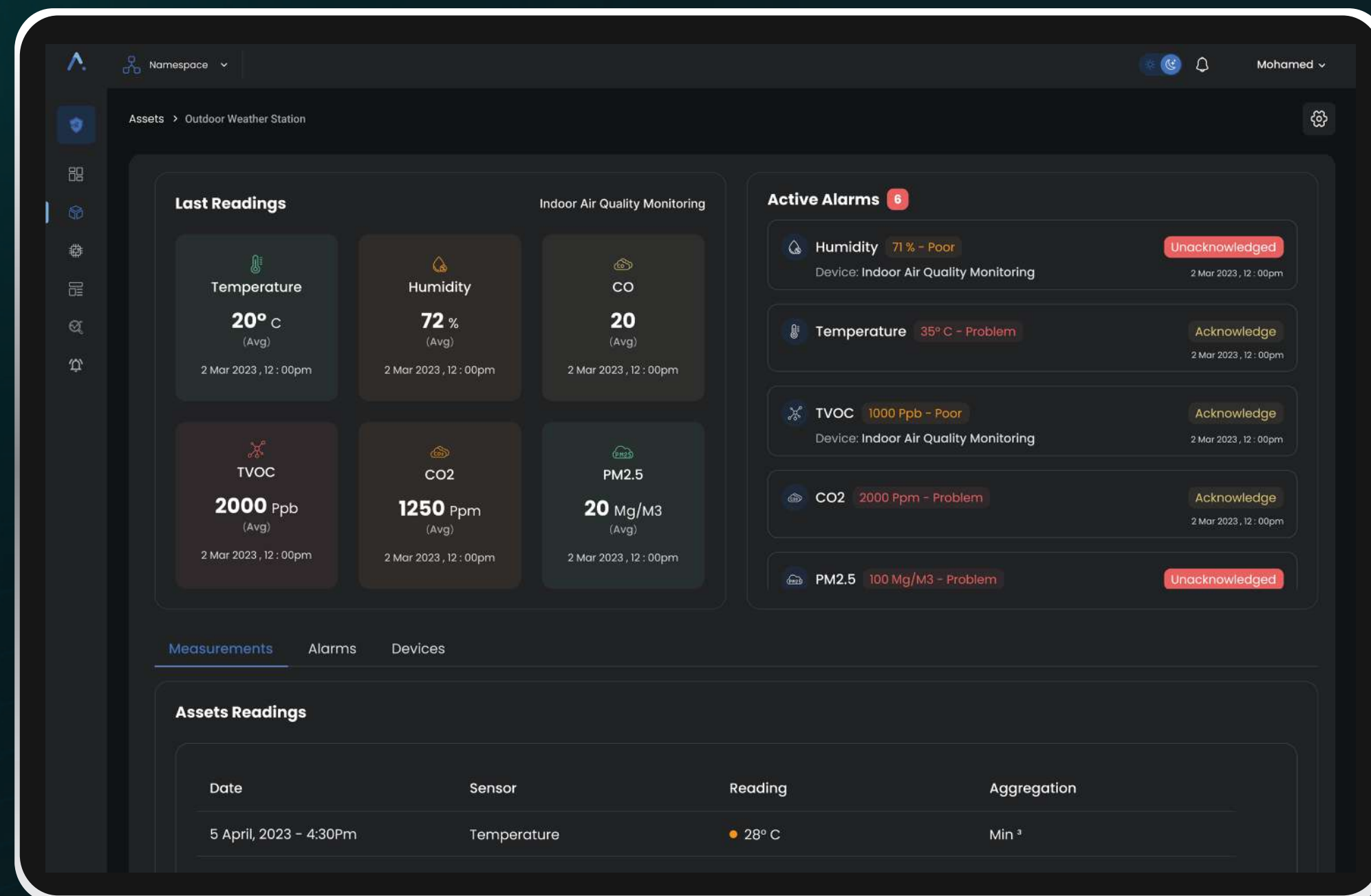
Multi Channel Alerts via  
Email/SMS/Call/Instant  
Messaging



Get Real-time  
Notifications



Detailed Device  
Readings



Did you know?

According to the World Health Organization (WHO),

**3.2 million**

people die every year from exposure to household air pollution.

Scan for more info.





# Indoor Air Quality



## Indoor Air Quality - CO<sub>2</sub>

Product Code: IC2-SIGX-001



Temperature



Humidity



Carbon Dioxide

Dimension: 100 x 100 x 28 mm

Weight: 186 g

Temperature Sensor: -40°C to 60°C

CO<sub>2</sub> Range: 0 - 5,000 PPM

Humidity Range: 0 - 95%

Reading Intervals: Every 30 mins.



Sensor life up to 6 years



Up to 5 years



## Indoor Air Quality - TVOC

Product Code: ITV-SIGX-001



Temperature



Humidity



TVOC

Dimension: 100 x 100 x 27 mm

Weight: 184 g

Temperature Sensor: 0°C to 60°C

TVOC Range: 0 - 60,000 PPB

Humidity Range: 0 - 95%

Reading Intervals: Every 1 hour



Sensor life up to 6 years



Up to 5 years



## Indoor Air Quality - PM2.5 / PM10

Product Code: IPM-SIGX-001



Temperature



Humidity



PM 2.5



PM 10

Dimension: 100 x 100 x 42 mm

Weight: 248 g

Temperature Sensor: -10°C to 60°C

PM Range: 0 - 1,000ug/m3

Humidity Range: 0 - 95%

Reading Intervals: Every 30 mins.



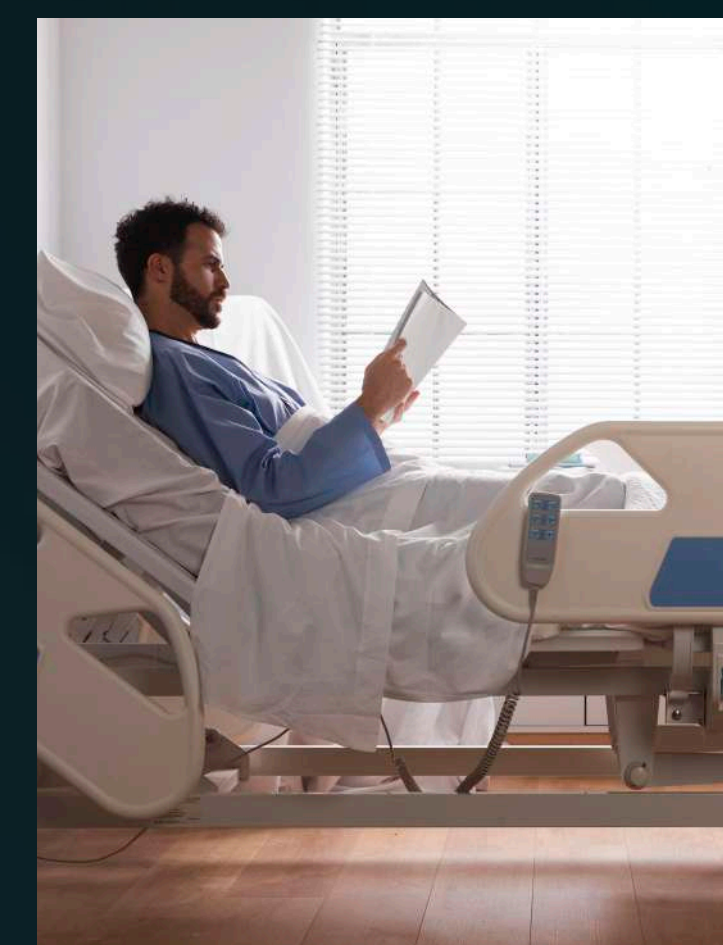
Sensor life up to 6 years



Up to 5 years



## Use-Cases:



Government Buildings



Indoor Public Spaces



Hospital & Healthcare



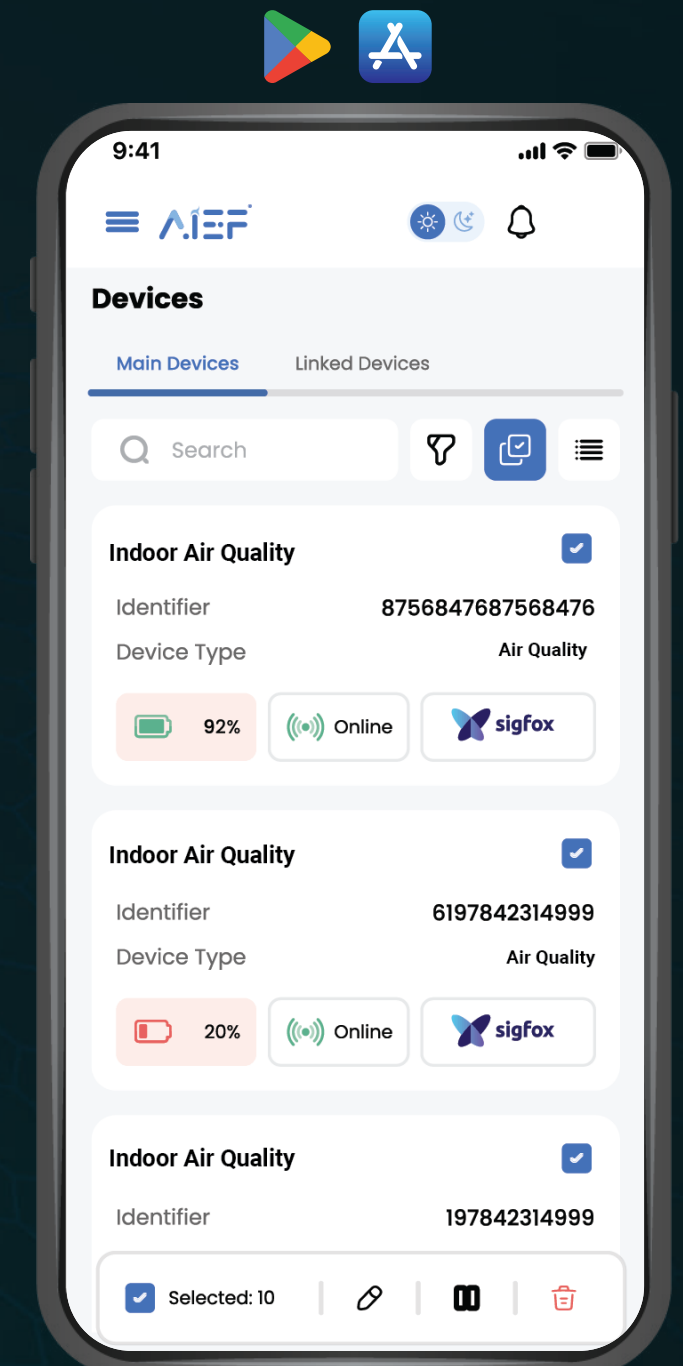
Schools & Universities



Industrial Facilities



Offices / Laboratories





# Indoor Air Quality



## Indoor Air Quality - Basic

Product Code: SRM-LORX-003



Temperature



Humidity

Dimension: 42 x 42 x 27 mm

Weight: 28 g

Operating Temperature: 0°C to 60°C

Humidity Range: 5% - 95%

Battery: CR2477

IP Rating: IP30



Up to 10 years

LoRaWAN



## Indoor Air Quality - Compact

Product Code: IAC-LORX-030



Temperature



Humidity



Ozone



TVOC



Motion Detection



Light Detection



Barometric Pressure



Carbon Dioxide



PM 2.5 & PM 10



Powered Device



LoRaWAN

Dimension: 100.8 x 114 x 22 mm

IP Rating: IP30

Temperature Sensor: -20°C to 60°C

Humidity Range: 0 - 100%

Barometric Range: 260 - 1260 hPa

Ozone Range: 0 - 10 ppm

## Indoor Air Quality - CO<sub>2</sub>

Product Code: IBZ-LORX-003



Temperature



Humidity



Carbon Dioxide



Barometric Pressure

Dimension: 80 x 80 x 31 mm

Temperature Sensor: 0°C to 60°C

Humidity Range: 5% - 95%

CO<sub>2</sub> Range: 400 - 5,000 PPM

Barometer: 300 - 1,200 hPa

IP Rating: IP30



Up to 6 years

LoRaWAN



\*Option available with display (IBD-LOR1-003)

## Indoor Air Quality - Compact HCHO

Product Code: IAH-LORX-030



Temperature



Humidity



Formaldehyde



TVOC



Motion Detection



Light Detection



Barometric Pressure



Carbon Dioxide



PM 2.5 & PM 10



Powered Device



LoRaWAN

Dimension: 100.8 x 114 x 22 mm

IP Rating: IP30

Temperature Sensor: -20°C to 60°C

Humidity Range: 0 - 100%

Barometric Range: 260 - 1260 hPa

Formaldehyde Range: 0 - 1.25 mg/m<sup>3</sup>

## Indoor Air Quality - CO<sub>2</sub>

Product Code: IC2-LORX-034



Temperature



Humidity



Carbon Dioxide

Dimension: 86 x 86 x 25.5 mm

Weight: 80 g

Temperature Sensor: -10°C to 70°C

CO<sub>2</sub> Range: 400 - 5000 ppm

Humidity Range: 0 - 100%

Communication Range: ~10km



Up to 5 years

LoRaWAN



## Indoor Air Quality - CO<sub>2</sub> & TVOC

Product Code: ICT-LORX-030



Temperature



Humidity



Carbon Dioxide



TVOC



Sensor life up to 1 year



Up to 1 year



LoRaWAN

Dimension: 105 x 70.4 x 21.2 mm

IP Rating: IP30

Temperature Sensor: -20°C to 70°C

CO<sub>2</sub> Range: 400 - 5,000 PPM

Humidity Range: 0 - 100%

TVOC Range: 0 - 60000 ppb

## Indoor Air Quality - VOC

Product Code: VOC-LORX-034



Temperature



Humidity



VOC

Dimension: 86 x 86 x 25.5 mm

Weight: 85 g

Temperature Sensor: -10°C to 70°C

VOC Index: 1 - 500 VOC Index points

Humidity Range: 0 - 100%

Communication Range: ~10km



Up to 5 years

LoRaWAN





# Outdoor Air Quality

Our Outdoor Air Quality Monitoring system offers advanced, real-time tracking of key air quality indicators to help businesses, communities, and governments make informed decisions.

## Why is it important?



Health Implications



Preventive Measures



Environmental Impact



Business Implications



Urban Planning



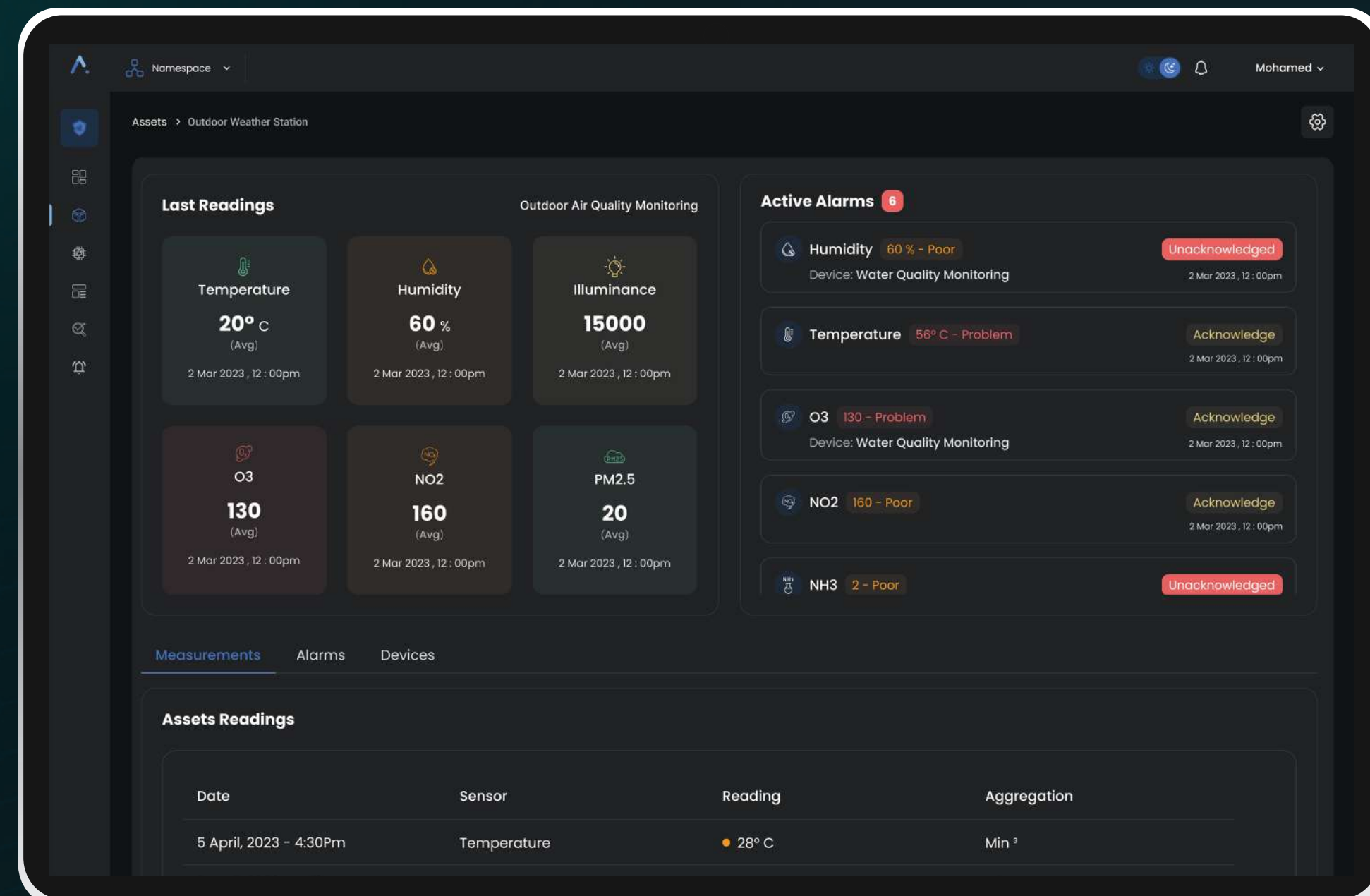
Public Awareness



Policy Formulation by Government



Climate Change Connection



“ Breathe Better, Live Clearer ”

## Key Features:



Outdoor Air Quality Parameter Monitoring



Multi Channel Alerts via Email/SMS/Call/Instant Messaging



Get Real-time Notifications



Detailed Device Readings

Did you know?

According to the World Health Organization (WHO),

**4.2 million**

people die every year from exposure to outdoor air pollution.

Scan for more info.





# Outdoor Air Quality



## 8 in 1 Outdoor Weather Station

Product Code: OAQ-LORX-021

- Temperature
- Humidity
- UV Index
- Wind Speed
- Wind Direction
- Rainfall Intensity
- Light Intensity
- Barometric Pressure

Weight: 1.5kg  
 Certification: CE / FCC / RoHS  
 Communication Distance: 2 - 10km  
 Operating Humidity: 0 - 99%RH



## 8 in 1 Outdoor Weather Station

Product Code: OA8-LORX-021

- Temperature
- Humidity
- Noise
- Wind Speed
- Wind Direction
- Particulate Matter 2.5
- Particulate Matter 10
- Barometric Pressure

Weight: 2kg  
 Power Supply: 12V~24V  
 IP Rating: IP66  
 Operating Temperature: -40°C to + 85°C



## 10 in 1 Outdoor Weather Station

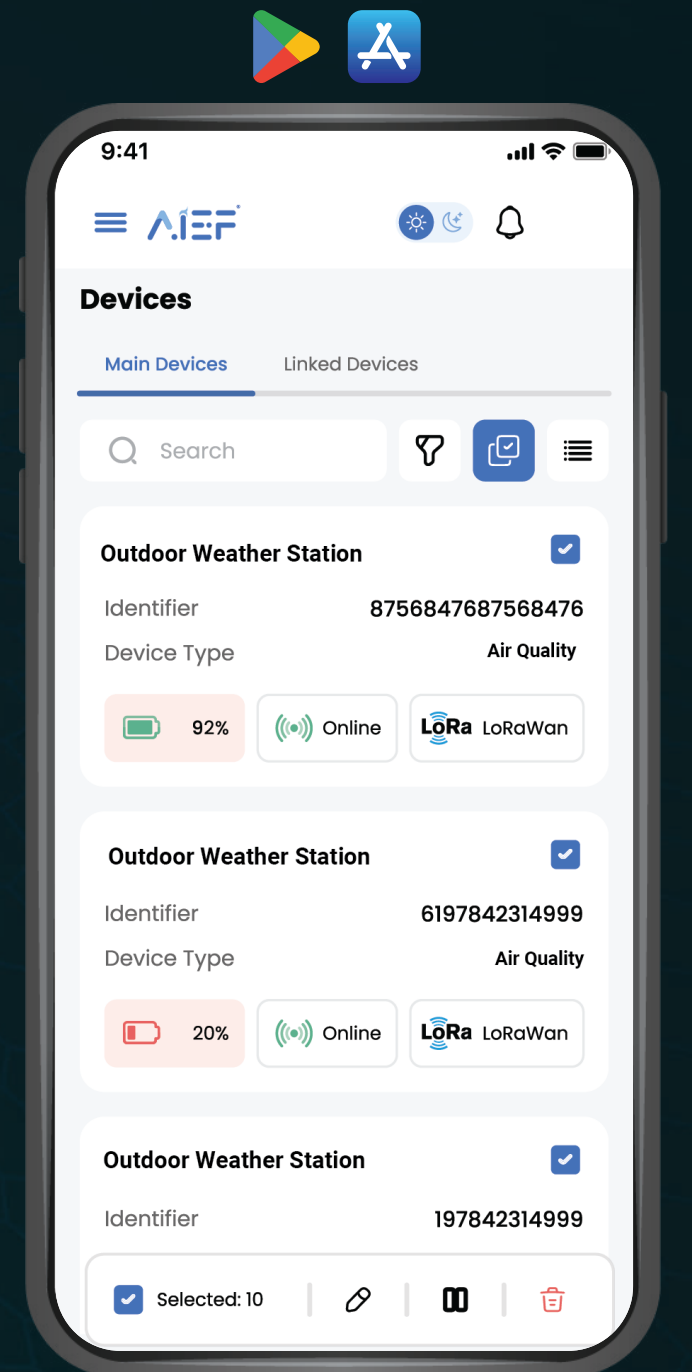
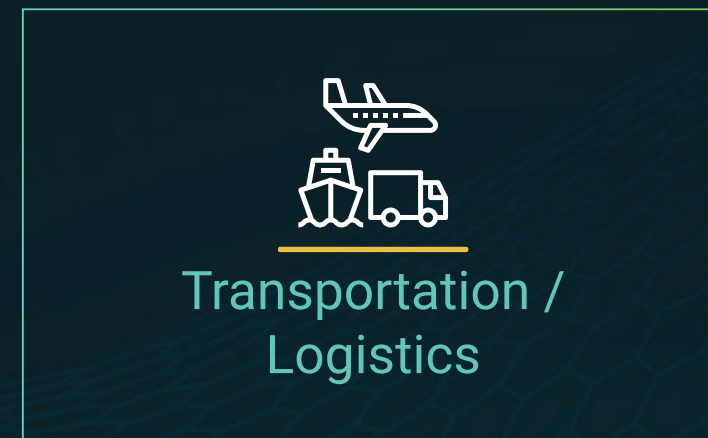
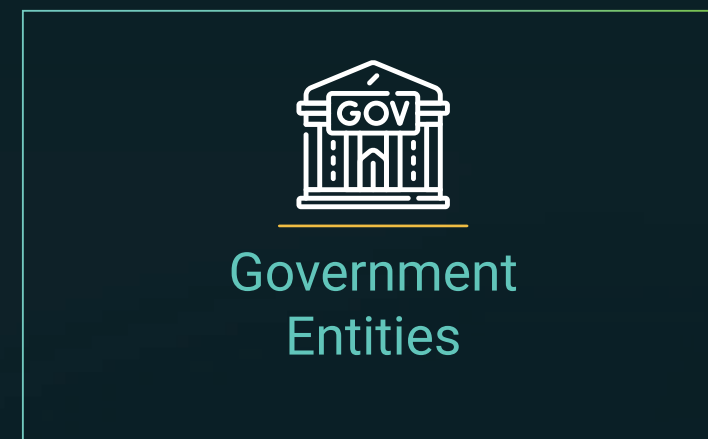
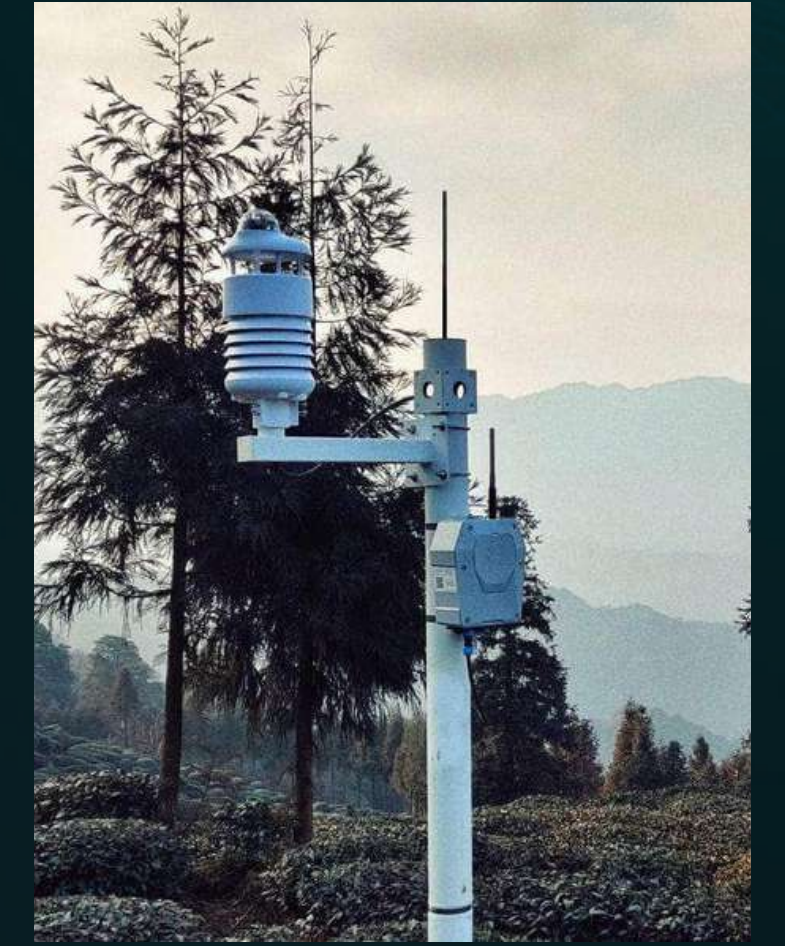
Product Code: O10-LORX-021

- Temperature
- Humidity
- Wind Speed
- Wind Direction
- Light Intensity
- Rainfall Intensity
- Barometric Pressure
- Carbon Dioxide
- Particulate Matter 2.5
- Particulate Matter 10

Weight: 2kg  
 Power Supply: 12V~24V  
 IP Rating: IP66  
 Operating Temperature: -40°C to + 85°C



## Use-Cases:





# Vape Monitoring



Our Vape Monitoring solution delivers real-time insights into vaping gas presence, ambient temperature, and humidity levels, enabling schools, businesses, and public spaces to ensure a healthier, informed, and regulation-compliant environment.

## Why is it important?



Health Implications



Protection of Non-Vapers



Improve Indoor Air Quality



Reduce Regulatory Penalties



Prevention of Accidents



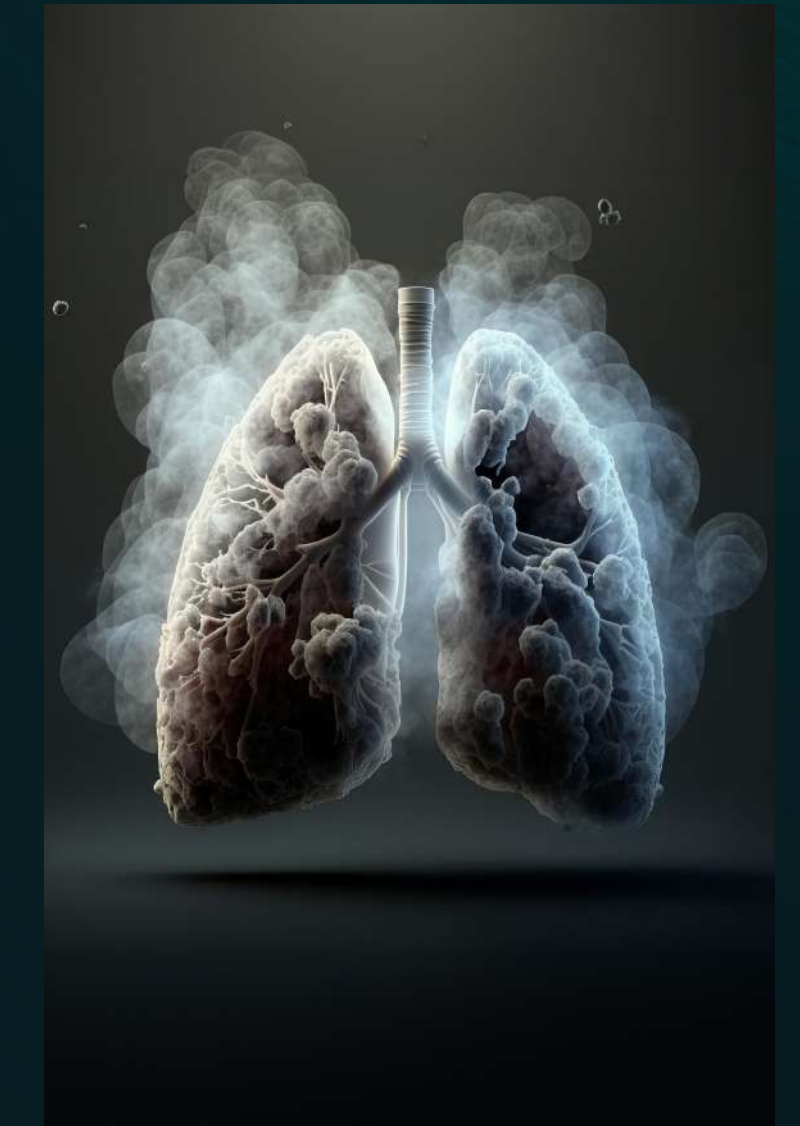
Avoid Bad Public Perception



Policy Formulation by Government



Decrease Cleaning Costs



## Key Features:



Detect Indoor Vaping Gas



Monitor Temperature & Humidity



Get Real-time Notifications



Detailed Device Readings

## Use-Cases:



Public Transport



Indoor Public Spaces



Hospital & Healthcare



Schools & Universities

“From data to decision,  
choose a vape-free vision.”

Scan for more info.



### Vape Monitoring Sensor

Product Code: VPL-LORX-034

Weight: 350g

Dimension: 146 x 130 x 45 mm

Vaping Index: 1 to 500 vaping index points

Operating Temperature: -10°C to 70°C

Operating Humidity: 0 to 100 % RH

Communication Range: ~ 10km



Up to 10 years



LoRaWAN



# Air Pressure Monitoring



Our Air Pressure Monitoring system provides real-time readings of atmospheric pressure differences between indoor and outdoor environment enabling businesses, communities, and governments to anticipate weather changes and make data-driven decisions.

## Why is it important?

- Energy Efficiency
- Comfort & Well-being
- Improve Indoor Air Quality
- Moisture Control
- Preventive Measures
- Decrease Repair Costs



Air Pressure Monitoring Sensor	Product Code: PMS-SIGX-001
Weight: 166g Dimension: 100 x 100 x 35 mm Battery: 1 x 3.6 V Pressure Difference Range: -500 ... +500 Pa Temperature Range: -40°C to 85°C Reading Intervals: Every 30 mins.	Up to 5 years  

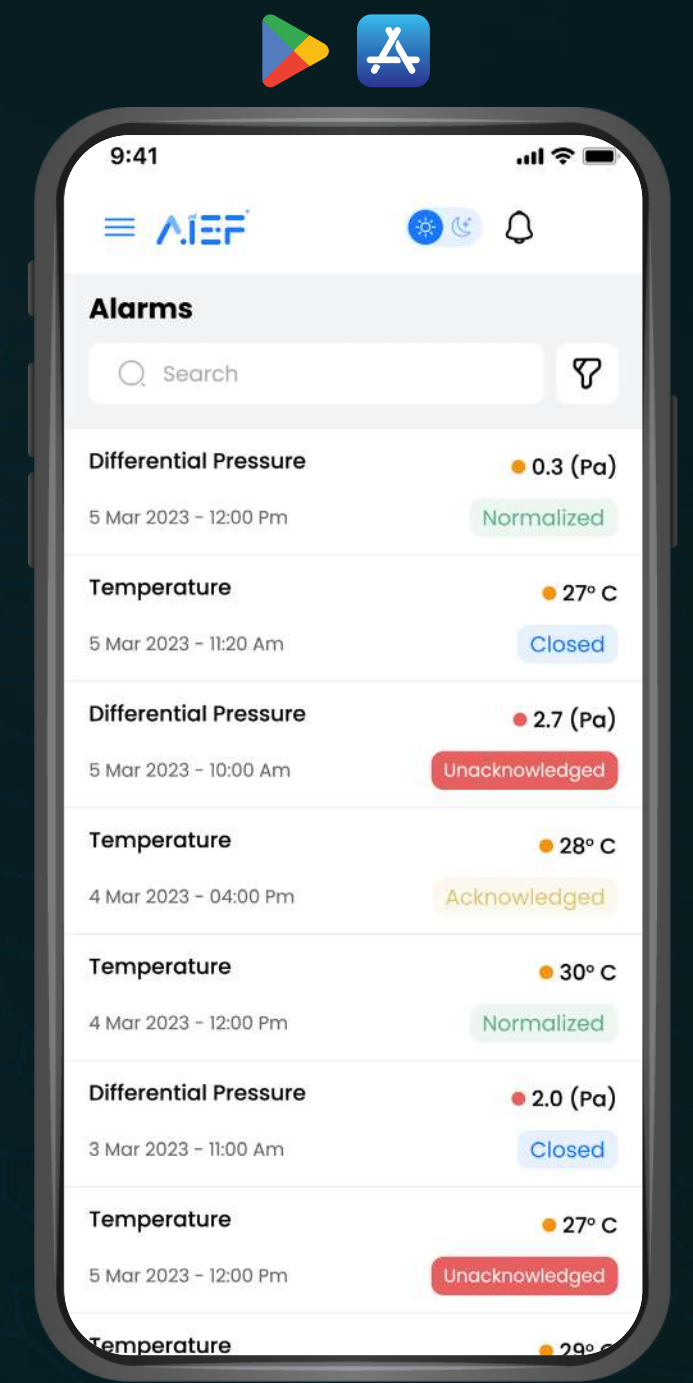
**Did you know?**  
**Sick building syndrome** where occupants experience health issues due to poor indoor air quality, can sometimes be traced back to inadequate air pressure management.



## Use-Cases:

- Pharmaceutical Plants
- Building Management
- Hospital & Healthcare
- Data Center

- ### Key Features:
- Monitor Air Pressure
  - Alerts via Email/SMS/Call/Instant Messaging
  - Get Real-time Notifications
  - Detailed Device Readings





# Odour Monitoring

Our Odour Monitoring System provides precise, real-time detection of Ammonia (NH<sub>3</sub>) and Hydrogen Sulfide (H<sub>2</sub>S) levels, aiding businesses and communities in maintaining clean and safe atmospheres.

## Why is it important?

- Health & Safety
- Odour Control
- Reduced Complaints
- Hygiene Standards
- Operational Efficiency
- Maintenance Alerts

## Key Features:

Odour Parameter Monitoring	Alerts via Email/SMS/Call/Instant Messaging
Get Real-time Notifications	Generate Customized Reports

## Use-Cases:

Public Restrooms	Hotels & Resorts	Shopping Centers	Livestock Farms
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“ Real-time monitoring for a fresher, safer environment.”

Scan for more info.



<h3>Bathroom Odour Monitoring</h3> <ul style="list-style-type: none"><li> Ammonia</li><li> Hydrogen Sulfide</li><li> Temperature</li><li> Humidity</li></ul> <p>Dimension: 120 × 85 × 32.5 mm IP Rating: IP30 Temperature Range: -40°C to 85°C</p> <p>NH<sub>3</sub> Range: 0..10 ppm H<sub>2</sub>S Range: 0..5 ppm Humidity Range: 0 - 100%</p> <ul style="list-style-type: none"><li> Sensor life up to 10 years</li><li> Up to 3 years</li></ul>	<p>Product Code: ODM-LORX-030</p> <p>LoRaWAN</p>
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# Smart Water Quality Monitoring

Dive into a world where the durability of your assets, such as pools, water tanks and spas are effortlessly maintained through vigilant water quality monitoring! Our IoT Platform tracks pivotal parameters, including pH levels, temperature, TDS, among others.

## Why is it important?



Health & Safety



Chemical Balance



Asset Longevity



Operational Costs



Water Clarity



Preventative Maintenance



Compliance with Regulations



Enhanced User Experience

“Swimming in Safety, Soaking in Quality.”

## Swimming Pool Monitoring



Temperature



pH Level



ORP



TDS



Conductivity



Salinity



Free Chlorine  
(Calculated)

Battery Type: Lithium Thionyl Chloride

Dimension: 253 x 96 mm

Weight: 714g

Protection Standard: IPX 8 Standard

Product Code: WAR-SIGX-010



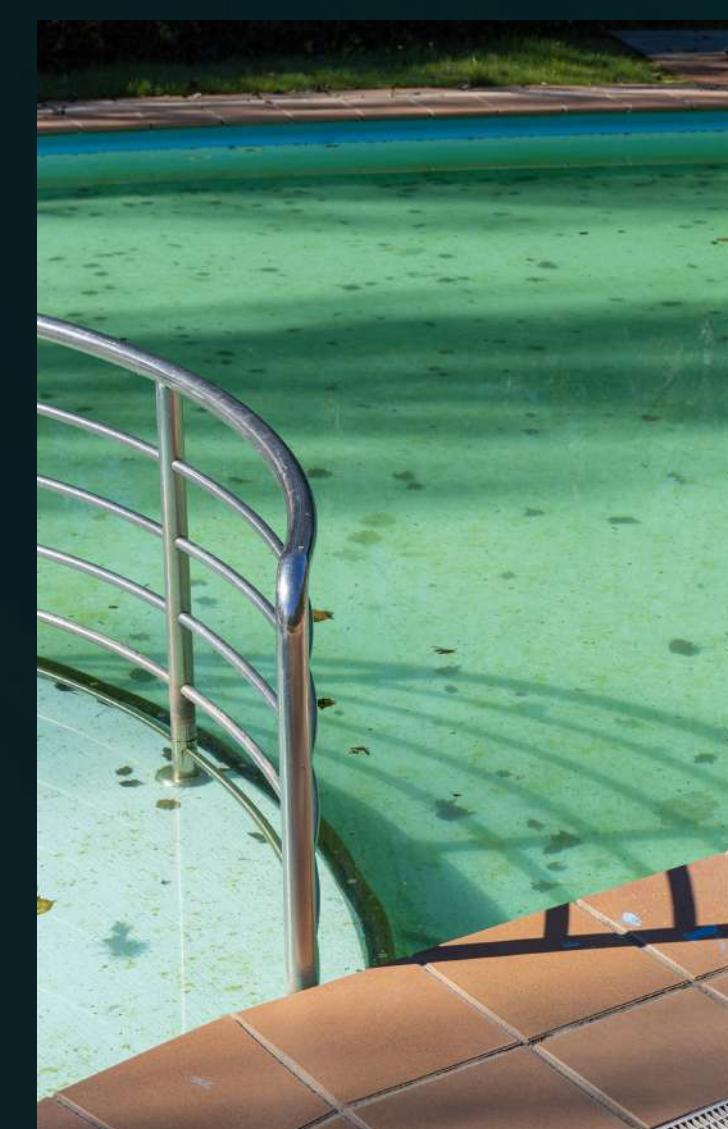
Sensor life  
up to 2 years



Up to  
1 year



sigfox



## Key Features:



Monitor Water  
Sensor Parameters



Alerts via Email/SMS/  
Call/Instant Messaging



Get Real-time  
Notifications



Detailed Device  
Readings

Did you know?

According to the World Health Organization (WHO),

**3.4 million**

people, mostly children, die annually from water-related diseases

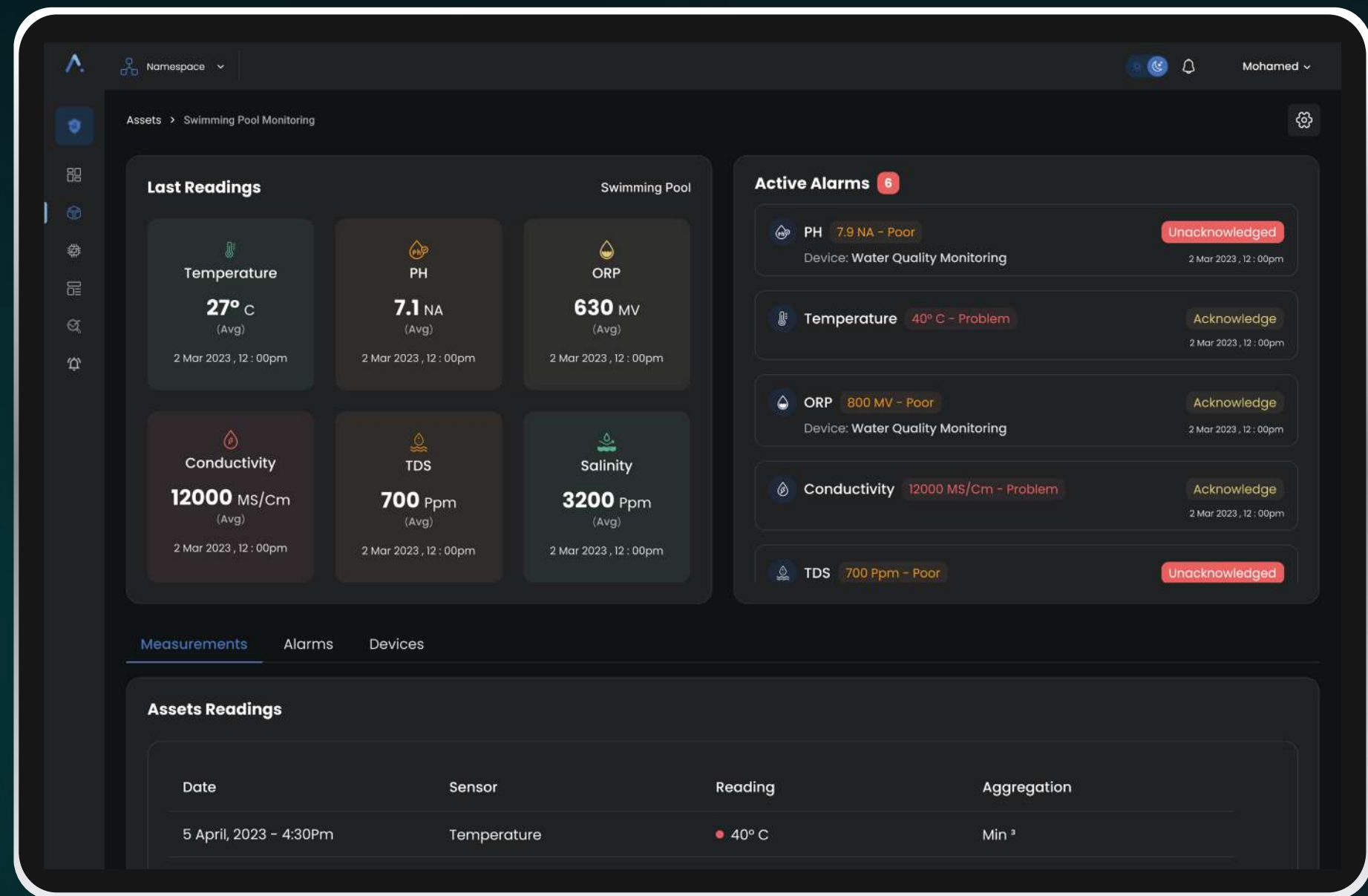
Scan for more info.



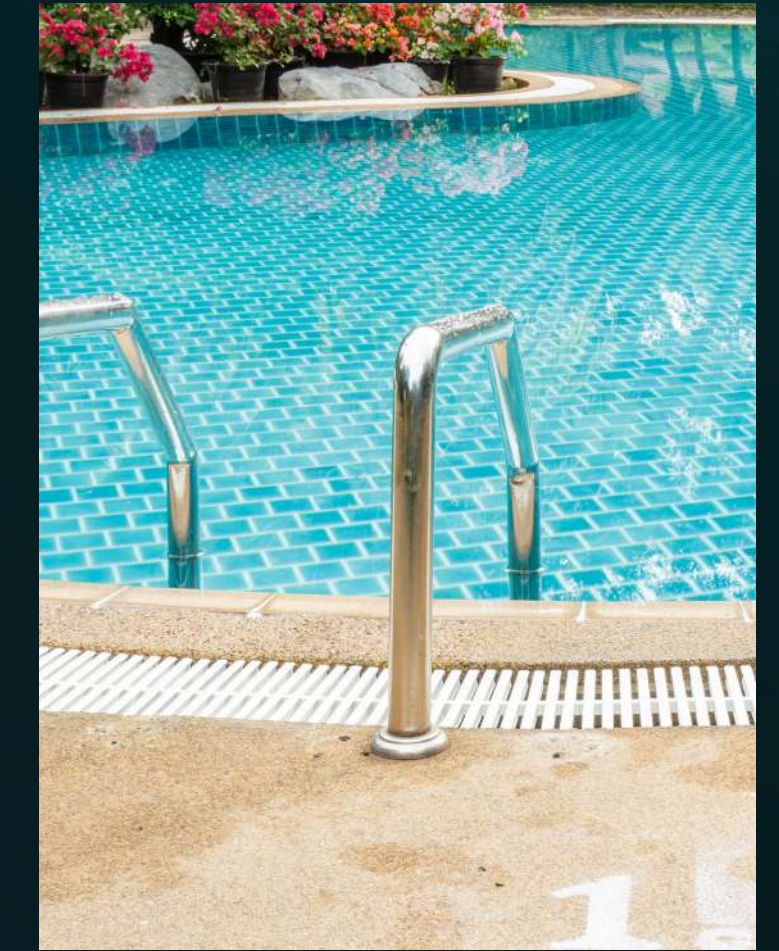
disrupt-X



# Smart Water Quality Monitoring



## Use-Cases:



**\$250k - \$2m**  
Pool Cost

**40% - 60%**  
Poor Management

**-\$125k**  
Loss of Owner  
\*based on cost of 250\$k

**20 years**  
Avg. Pool Life

**10 years**  
Pool Life

Assets you can monitor using Water Quality Monitoring

- Swimming Pools
- Spa / Hot Tubs
- Water Tanks

**Did you know?** **Health Risk**

Poor water quality contributes to eye and skin irritation and poses high risk of microbial infections due to fecal and non-fecal sources.

**Health and Wellness Centers**

**Schools & Universities**

**Community Management**

**Hotels & Resorts**

**Water Treatment Facilities**

**Recreational Facilities**





# Pressure Monitoring



IoT Solution to monitor Water Pressure in bar with warnings such as tamper detection & more through our IoT Platform. Maintain optimal water pressure levels, prevent leaks, and ensure efficient operation for improved performance and peace of mind with our Water Pressure Monitoring solution.

## Why is it important?



Early Detection of Issues



Reduce Cost on repair



Efficiency and Conservation



Infrastructure Longevity



Protection of Infrastructure



Optimal Irrigation

### Water Pressure Monitoring Sensor

Product Code: WPM-SIGX-009

Pressure Ranges: 0-10 Bar or 0-20 Bar

Battery Type: Lithium Thionyl Chloride

Dimension: 110 x 58 x 30 mm

Weight: 100g

Cable Length: 2m Standard



Sensor life up to 3 years



Up to 3 years



## Use-Cases:



Water Treatment Facilities



Industrial Facilities



Pipeline / Tank Systems



Oil & Gas Facilities

### Pipe Pressure Monitoring Sensor

Product Code: PPM-LORX-030

Pressure Ranges: 0 - 1,600 kPa (16 Bar)

Power Supply: 19000 mAh Li-SOCL2 battery

Transceiver Dimension: 105.4 x 71 x 69.5 mm

Pipe Sensor Dimension: : 67.5 x φ27 mm

Cable Length: 1.5m



Up to 10 years



## Key Features:



Monitor Pipe Pressure Levels



Tamper Detection Warning



Get Real-time Notifications



Alerts via Email/SMS/ Call/Instant Messaging

Scan for more info.





# Cold Storage Monitoring

IoT-powered cold storage monitoring solutions that revolutionize the way you manage your supply chain. Our goal is to help businesses maintain optimal temperatures, ensuring product quality and safety.

## Why is it important?



Quality Control Procedures



Safety Concerns



Energy Efficiency



Reduce Costs



Waste Reduction



Preventative Maintenance



Compliance with Regulations



Supply Chain Optimization



## Key Features:



Monitor Temperature & Humidity



View Analytics Based on Sensor Readings



Get Real-time Notifications



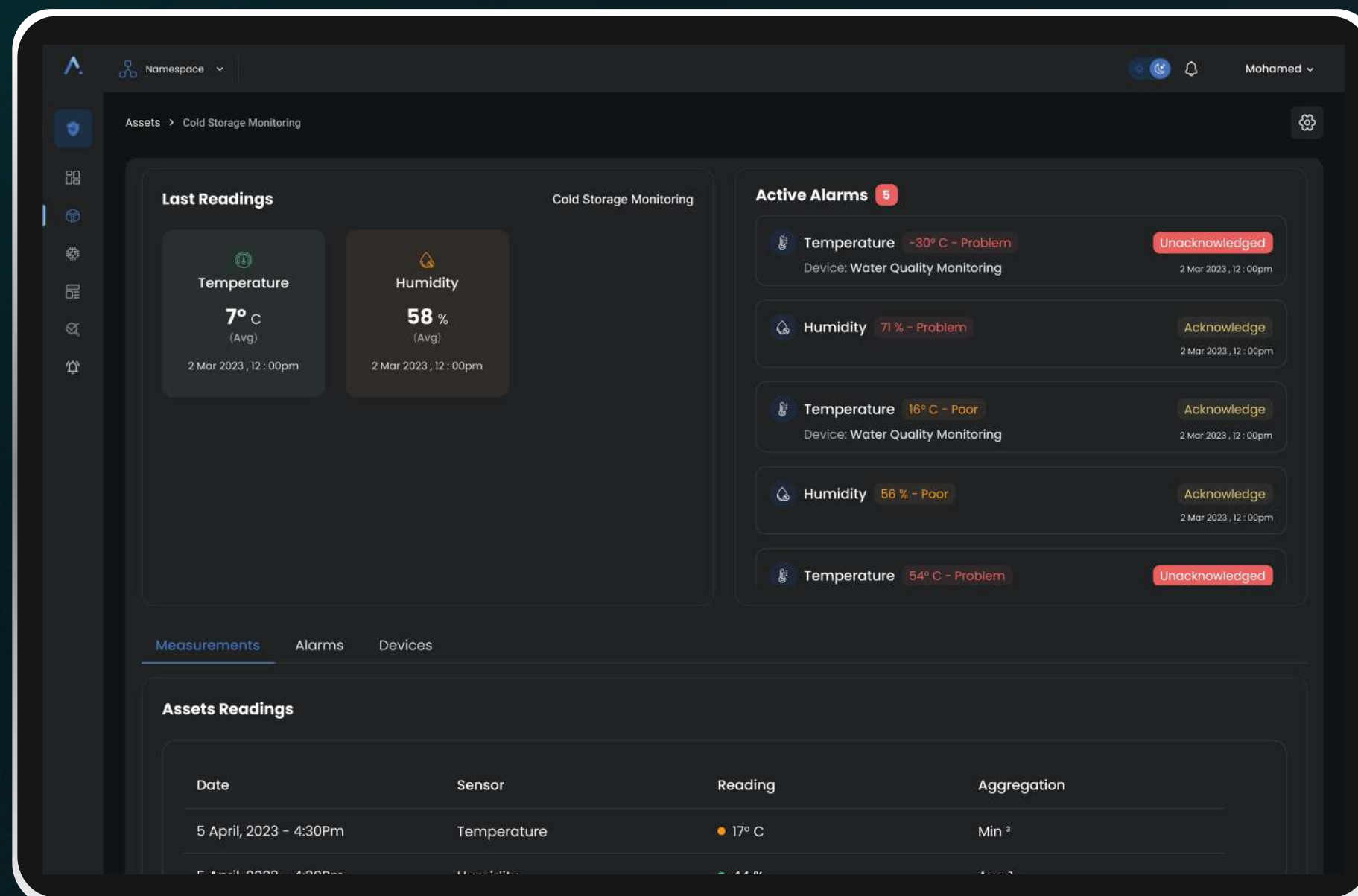
Detailed Device Readings

Did you know?

1.3 tonnes

one third of the world's food, is lost and wasted every year during the process of transporting the goods from harvest to final consumption.

Scan for more info.





# Cold Storage Monitoring



### Cold Storage Monitoring Sensor

Product Code: CSM-SIGX-005

Temperature

Humidity

Dimension: 99 x 70 x 35 mm  
Weight: 165g  
Temperature Range: -40°C to 125°C

Humidity Range: 0 - 100%  
Battery Type: Lithium Battery  
IP Rating: IP68

**sigfox**

Sensor life up to 3 years

Up to 6 months (Rechargeable)

### Cold Storage Monitoring Sensor

Product Code: M32-LORX-030

Temperature

Humidity

Dimension: 85 x 58 x 18 mm  
IP Rating: IP67  
Installation: Wall Mounting / Magnetic Mounting

Temperature Range: -30°C to 60°C  
Humidity Range: 0 - 100%  
Power Supply: 2 x 2700 mAh ER14505 Li-SOCL2

**LoRaWAN**

FDA Approved

Up to 5 years

### Cold Storage Monitoring Sensor

Product Code: CSM-LORX-003

Temperature

Humidity

Dimension: 67 x 43 x 36 mm  
IP Rating: IP67  
Temperature Range: -40°C to 85°C

Battery: C Cell  
RF Power: 15 dBm  
RF Sensitivity: up to -137 dBm

**LoRaWAN**

Sensor life up to 10 years

Up to 3 years (Rechargeable)

### Cold Storage Monitoring Sensor

Product Code: M30-LORX-030

Temperature

Humidity

Dimension: 88.5 x 85.3 x 27 mm  
IP Rating: IP67  
Installation: Wall Mounting

Temperature Range: -30°C to 70°C  
Humidity Range: 0 - 100%  
Power Supply: 1 x 4000 mAh ER18505 Li-SOCL2

**LoRaWAN**

Sensor life up to 5 years

Up to 5 years

## Use-Cases:

Cold Chain Transportation

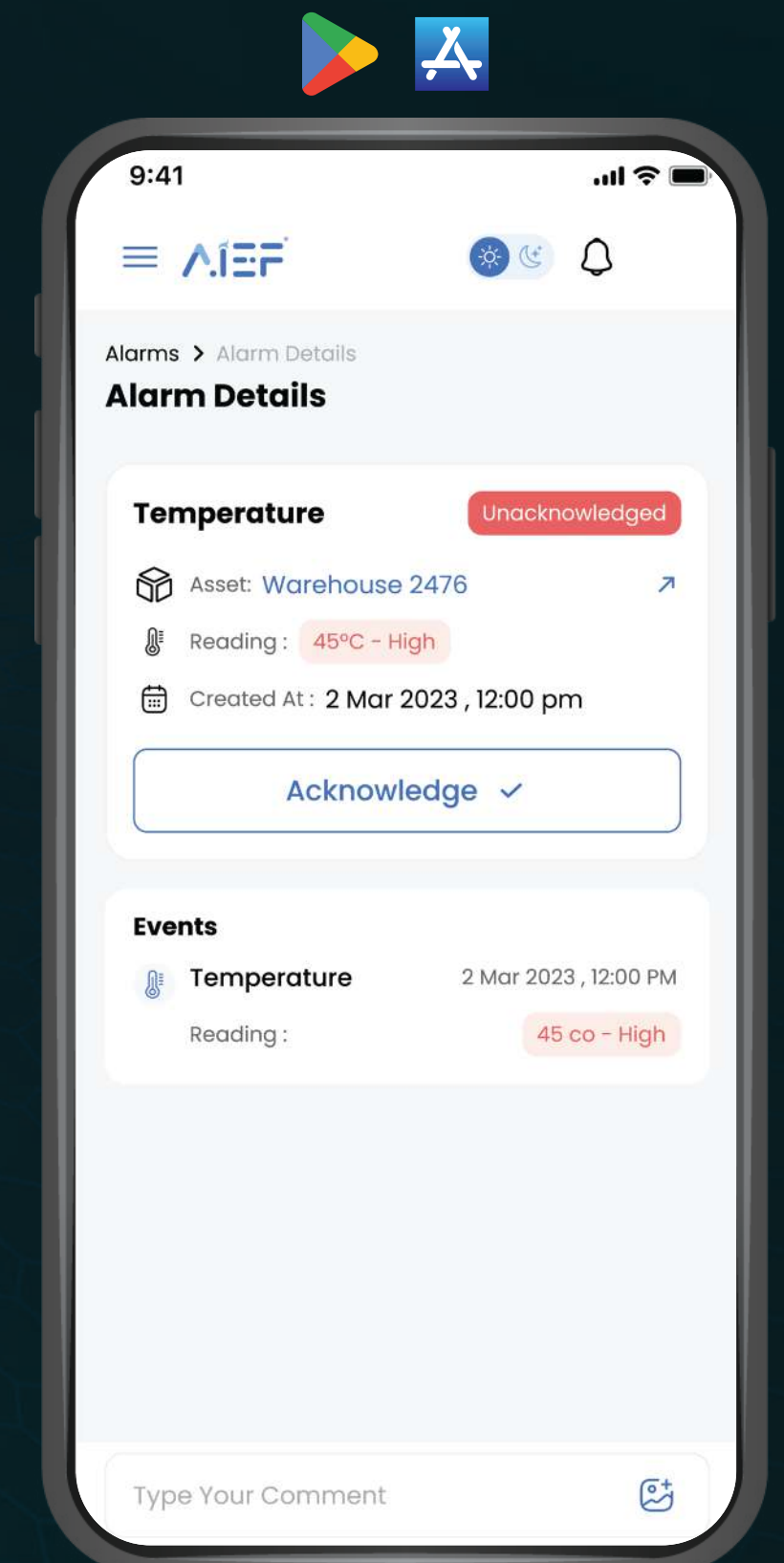
Medical Laboratories

Greenhouse

Warehouse

Food Storage

Data Center



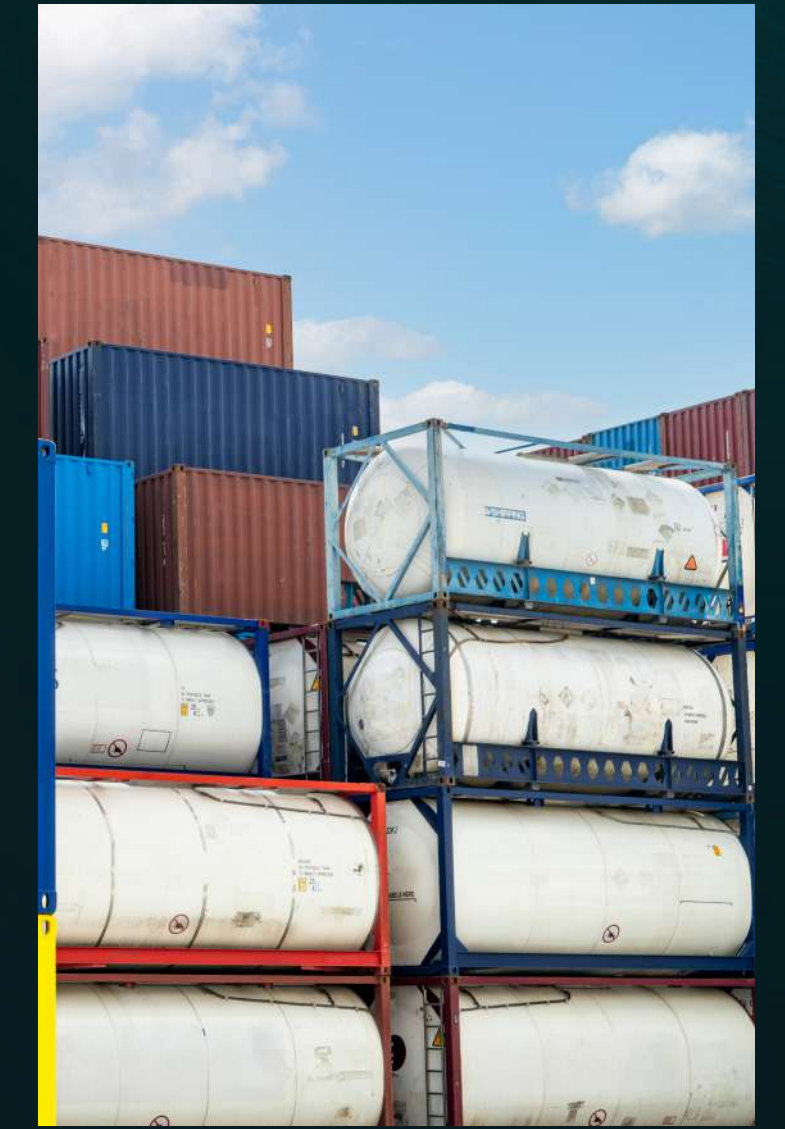


# Level Monitoring

Our IoT solution for Level Monitoring offers real-time monitoring for various levels within your premises. With our advanced system, you can keep track of water levels, fuel levels, or any other liquid or solid substances.

## Why is it important?

- Avoid Overflow
- Resource Management
- Cost Efficiency
- Conservation of Resources
- Supply Chain Management
- Automation of Readings



### Level Monitoring Ultrasonic

Product Code: LMU-LORX-030

Dimension: 156.1 × 71 × 69.5 mm  
 Operating Temperature: -30°C to +65°C  
 IP Rating: IP67  
 Power Supply: 19000 mAh Li-SOCL2  
 Measurement Range\*: 0.25 to 8m



LoRaWAN

- Distance / Level Measurement
- Up to 10 years

## Use-Cases:

- Water Treatment Facilities
- Chemical Plants
- Flood Monitoring
- Oil Industries

### Level Monitoring Submersible

Product Code: LMS-LORX-030

Dimension Transceiver: 105.4 × 71 × 69.5 mm  
 Dimension Level Sensor: 140 × Ø 28 mm  
 IP Rating: IP67 (Transceiver) / IP68(Level Sensor)  
 Cable Length: At least 1-1.5m longer than measuring range  
 Measurement Range\*: 0 ~ 3m/5m/10m (H2O)  
 \*Customizable up to 200 m and for other liquids



LoRaWAN

- Liquid Level
- Up to 10 years

## Key Features:

- Monitor Liquid or Solid Level / Distance
- Alerts via Email/SMS/ Call/Instant Messaging
- Get Real-time Notifications
- Detailed Device Readings

Scan for more info.





# Manhole Monitoring



IoT Solution designed for the monitoring of manhole covers. The 3-axis accelerometer allows the manhole sensor to detect the movement in X,Y,Z axis. The device monitors unusual tilt along with distance from manhole covers.

## Why is it important?



Safety Precautions



Flood Prevention



Operational Efficiency



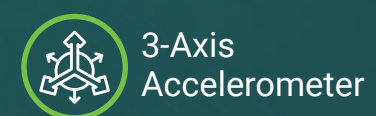
### Manhole Monitoring Sensor

Dimension: 114 X 96 X 53.25 mm  
 Tilt Measurements: X/Y and Z (Accuracy)  
 Operating Temperature: -30°C to 70°C  
 Operating Humidity: 0 - 95% RH  
 IP Rating: IP68

Product Code: MNH-SIGX-037 |  
 MNH-LORX-037 | MNH-NBT-037



Level Sensor



3-Axis Accelerometer



Corrosion Resistance



Up to 10 years



“Real-time surveillance of manhole conditions keeping you always informed and prepared.”

Scan for more info.



## Use-Cases:



Urban Streets



Industrial Zones

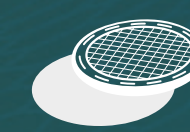


Construction Sites



Railway Tunnels

## Key Features:



Monitor Manhole Cover Movements



Detailed Device Readings



Get Real-time Notifications



Alerts via Email/SMS/Call/Instant Messaging



# Water Leakage Detection

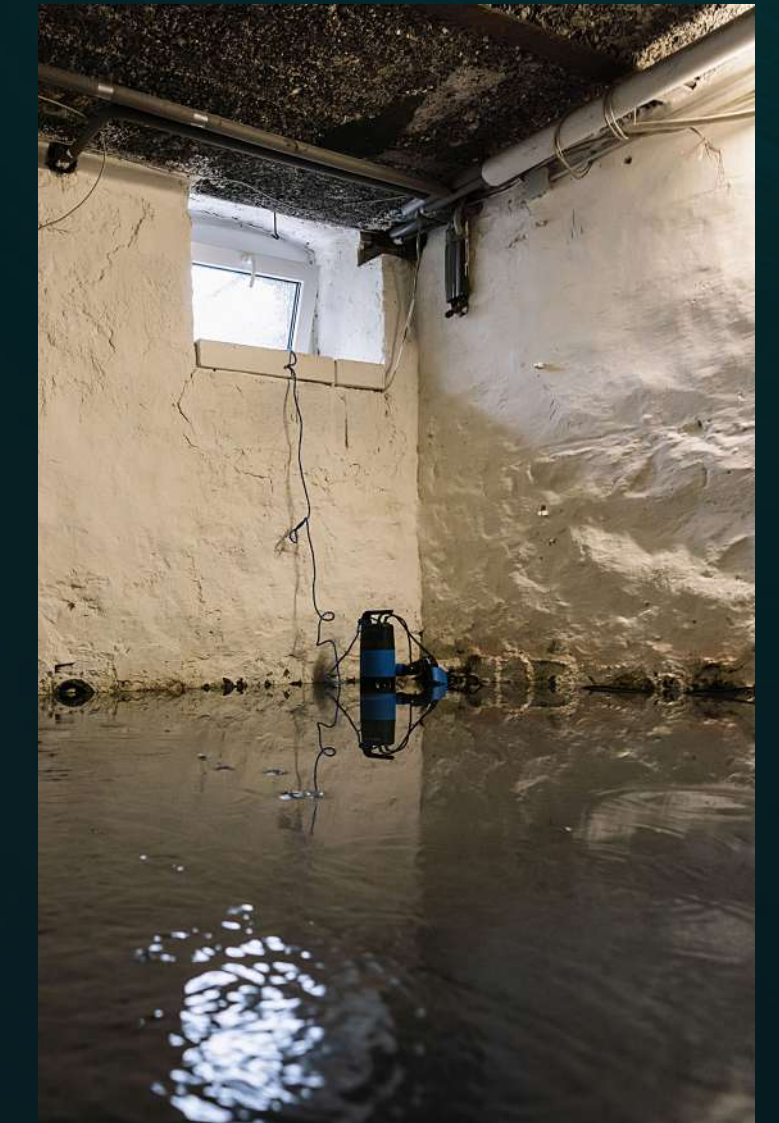


Our IoT-powered Water Leakage Detection systems are engineered to deliver reliable, real-time solutions to avert expensive water losses. Immerse yourself in our advanced approach to water management, setting new benchmarks in the field.

## Why is it important?

- Early Detection of Issues
- Reduce Cost on repair
- Efficiency and Conservation
- Infrastructure Longevity
- Protection of Infrastructure
- Optimal Irrigation

**“ Why let leaks drain your resources?  
Plug in to smart detection.”**



### Water Leakage Detection

Product Code: WLD-LORX-025

Battery Type: 2x 1.5V Alkaline AA  
 Dimension: Ø 80 x 37 mm  
 IP Rating: IP65  
 Alarm Volume: ≥85dB(A) at 1 meter  
 Operating Ambient Condition: 4~38°C ≤ 80%RH Non-condensate

Up to 2 years



LoRaWAN

### Spot Leak Detection

Product Code: SLD-LORX-030



Temperature



Humidity

Dimension: 105.6 × 85.3 × 27 mm  
 IP Rating: IP67  
 Temperature Range: -30°C to 70°C  
 Humidity Range: 0 - 100%  
 Trigger Level: reaches 5mm  
 Cable Length: 1.5 (customizable)



LoRaWAN

Store locally up to 3,000 historical records

Up to 3 - 5 years

## Use-Cases:

- Water Treatment Facilities
- Hotels & Resorts
- Shopping Centers
- Greenhouse / Farms

## Key Features:

- Monitor Water Leakage
- Alerts via Email/SMS/Call/Instant Messaging
- Get Real-time Notifications
- Generate Customized Reports

Scan for more info.





# Smoke & Fire Detection

IoT Smoke Detection & Monitoring safeguarding your premises against potential fire hazards. Our advanced platform and mobile app ensure quick response and proactive fire prevention, ensuring a secure environment for all.

## Why is it important?

- Prevention of Property Damage
- Early Detection
- Remote Monitoring
- Save Lives
- Infrastructure Longevity
- Compliance with Regulations

### Smoke and Fire Detection Sensor

Product Code: SDM-SIGX-025

Dimension: Ø155 mm x 41.8 mm  
 Weight: 340 g  
 Alarm Volume: ≥ 85dB(A)@ 3m  
 Battery: 2 x AA Battery (Replaceable)  
 Operation Ambient Condition: 4°C - 37.8°C



- Smoke Detect
- Fire Detect
- Up to 2 years

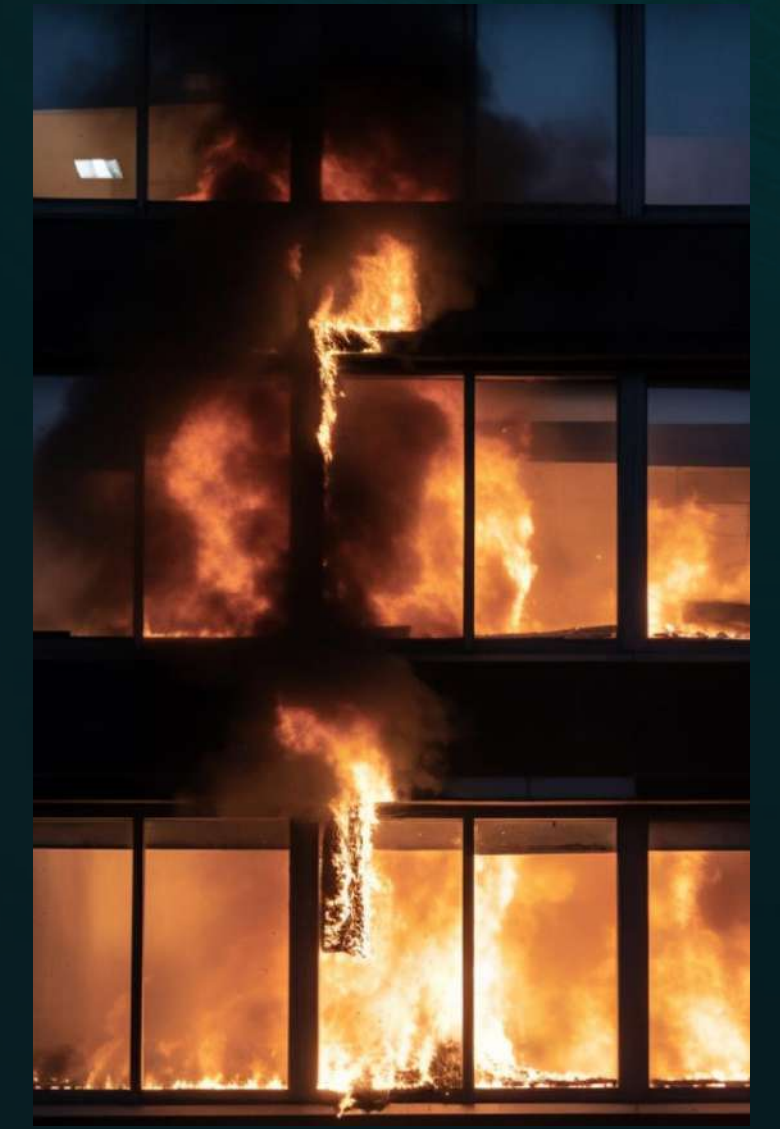
### Smoke Detection Sensor

Product Code: SDL-LORX-025

Dimension: Ø120 x 36.7 mm  
 Power: DC 2X1.5V AA  
 Alarm Volume: ≥ 85dB(A)@ 3m  
 Smoke Sensitivity: 0.115 - 0.168 dB/m  
 Heat Sensitivity: 54°C - 70°C



- Smoke Detect
- Up to 2 years



## Use-Cases:

- Commercial Buildings
- Hospitality Sectors
- Residential Homes
- Industrial Zones

## Key Features:

- Smoke & Fire Alarm Monitoring
- Alerts via Email/SMS/Call/Instant Messaging
- Get Real-time Notifications
- View Analytics Based on Sensor Readings

Scan for more info.





# Agriculture Monitoring



Our IoT-based Agriculture Monitoring system delivers advanced, real-time insights into soil parameters and environmental metrics, empowering farmers, researchers, and environmentalists with the data they need to make informed decisions for optimal growth and sustainability.

## Why is it important?



Optimized Plant Growth



Early Detection



Water Conservation



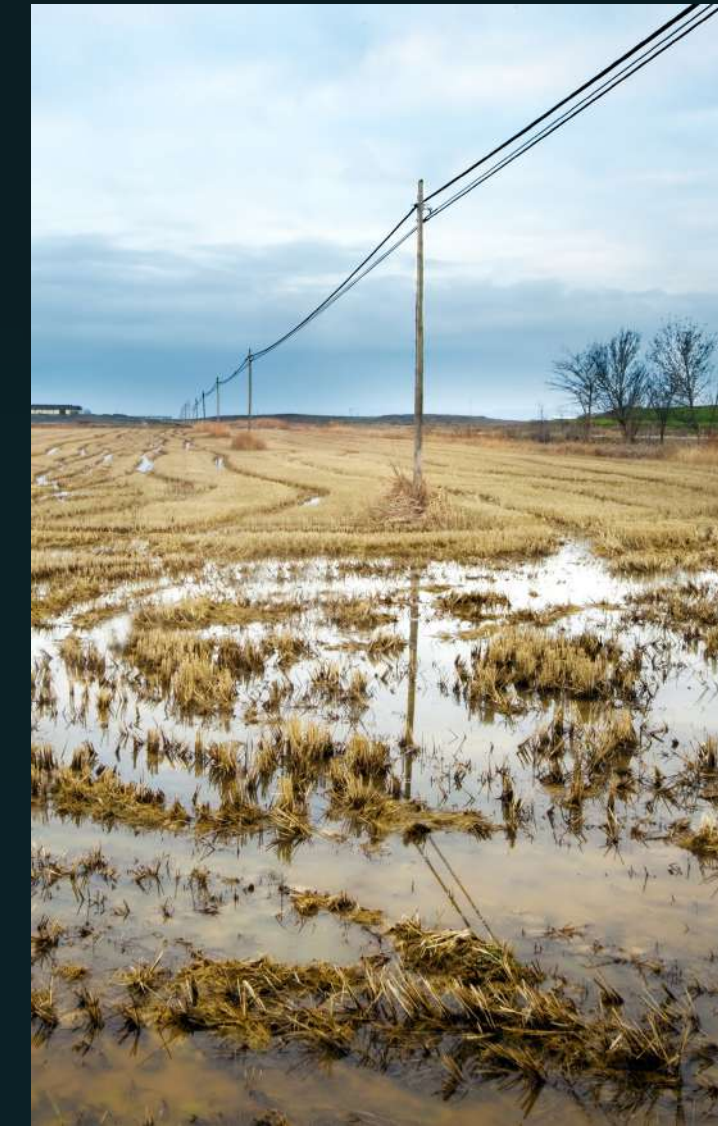
Cost Efficiency



Sustainable Practices



Improved Harvest



Sensor	Reading	Asset	Closed At	Created At	Normalized At	Status
Soil Moisture	0.3 GWC	Daisy Farm Vineyard, Lon...	11 Mar 2023, 12:00 Pm	11 Mar 2023, 11:15 Am	-	Normalized
Soil Temperature	20 °C	Strawberry Farm, London	08 Mar 2023, 02:00 Pm	08 Mar 2023, 11:55 Am	08 Mar 2023, 01:00 Pm	Closed
Soil Temperature	32 °C	Daisy Farm Vineyard, Lon...	07 Mar 2023, 10:00 Am	07 Mar 2023, 08:00 Am	-	Unacknowledged
Illuminance	10 Lux	Daisy Farm Vineyard, Lon...	07 Mar 2023, 11:00 Am	07 Mar 2023, 10:30 Am	-	Acknowledged
Air Temperature	40.30 °C	Strawberry Farm, London	05 Mar 2023, 09:20 Am	04 Mar 2023, 11:20 Pm	05 Mar 2023, 03:00 Am	Closed
Soil Moisture	0 GWC	Rose Greenhouse, London	-	2 Mar 2023, 12:00 Pm	-	Unacknowledged
Humidity	61%	Strawberry Farm, London	01 Mar 2023, 11:40 Am	27 Feb 2023, 12:00 Pm	-	Normalized
Soil Moisture	2 GWC	Strawberry Farm, London	-	22 Feb 2023, 09:00 Pm	23 Feb 2023, 01:14 Am	Closed
Illuminance	4 Lux	Daisy Farm Vineyard, Lon...	-	18 Feb 2023, 08:20 Pm	-	Acknowledged
Soil Moisture	0.3 GWC	Daisy Farm Vineyard, Lon...	-	15 Feb 2023, 05:16 Pm	15 Feb 2023, 11:16 Pm	Closed

“Dive deep beneath the surface with IoT soil monitoring.”

Scan for more info.



## Key Features:



Monitor Soil & Air Temperature



Monitor Soil & Air Moisture



Get Real-time Notifications



Detailed Device Readings



# Agriculture Monitoring



## Soil Monitoring Sensor - Elevated Mount

Product Code: SMK-LORX-003

- Soil & Air Temperature
- Soil & Air Moisture
- Light Intensity

Sensor Dimension: 120 x 93 x 58 mm  
 Probe Length: 0.3 m - 1 m  
 Battery: C Cell LTC  
 Operating Temperature: -40°C to + 65°C  
 IP Rating: IP67

- Sensor life up to 10 years
- Up to 10 years



LoRaWAN

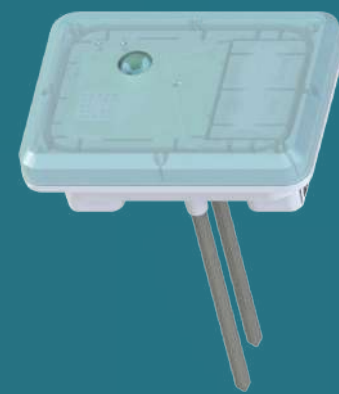
## Soil Monitoring Sensor - Direct Mount

Product Code: SMC-LORX-003

- Soil & Air Temperature
- Soil & Air Moisture
- Light Intensity

Sensor Dimension: 120 x 93 x 58 mm  
 Battery: C Cell LTC  
 Operating Temperature: -40°C to + 65°C  
 IP Rating: IP67

- Sensor life up to 10 years
- Up to 10 years



LoRaWAN

## Smart Agriculture Monitoring

Product Code: SMT-LORX-030

- Soil Temperature
- Soil Moisture
- Electrical Conductivity

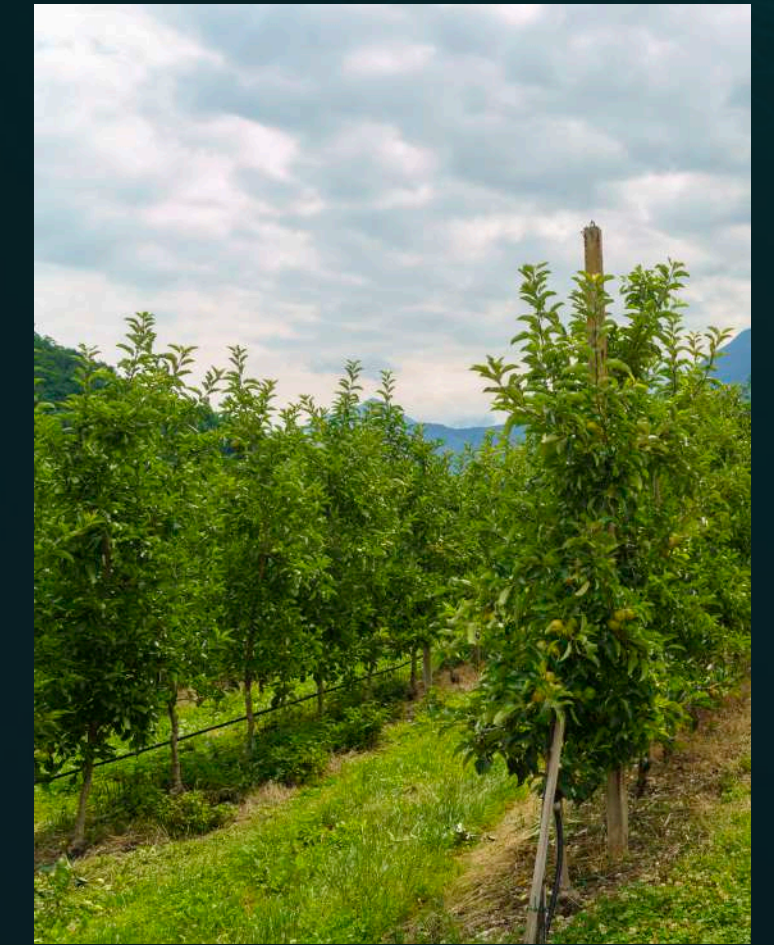
Size: 105 x 71 x 69.5 mm (Transceiver) / 88 x 68 x 26 mm (Soil Sensor)  
 Cable & Probe Length: 2 m (Cable) / 50 mm (Probe)  
 Moisture Range: 0% - 100% RH  
 Temperature Range: -40°C to + 80°C  
 Conductivity Range: 0 ~ 20,000 µs/cm

- Sensor life up to 10 years
- Up to 10 years



LoRaWAN

## Use-Cases:



Agricultural Farms

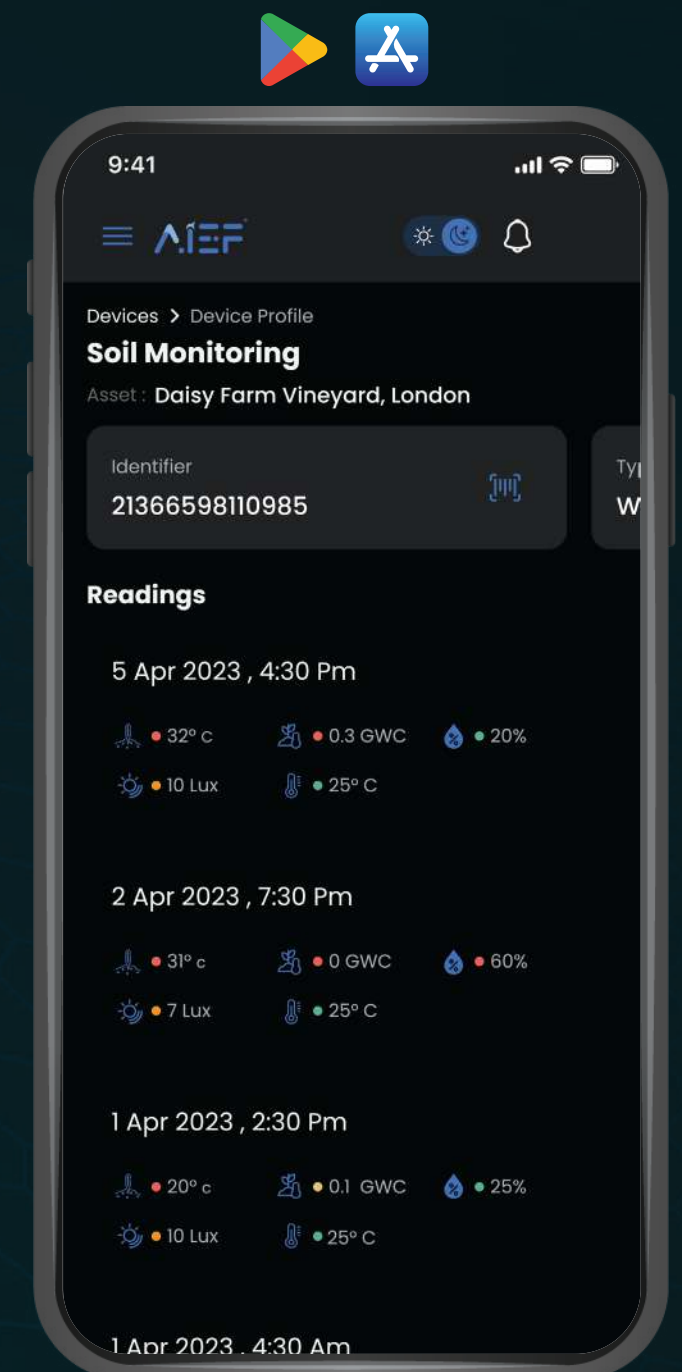
Community Management

Golf Courses

Recreational Parks

Greenhouse

Vineyards





# Noise Monitoring



Transform your spaces into safer, quieter, and more productive environments, fortified by accurate, insightful, and real-time noise data. Embrace a quieter future with our comprehensive, easy-to-use, and real-time noise monitoring solution.

## Why is it important?



Comfort & Well-being



Urban Planning



Compliance with Regulations

“Because every community **deserves its moments of silence.**”

### Noise Meter

Product Code: NOM-SIG1-006

Dimension: 145 x 64 x 40 mm  
 Operating Temperature: -25°C to +65°C  
 Measurement Range: 40dB - 100dB  
 Weight: 300g  
 Battery: 2x AA 3.6 V, 2,600 mAh (lithium)



Noise



Temperature



Up to 1 year

### Noise Level Monitoring

Product Code: NOM-LORX-030

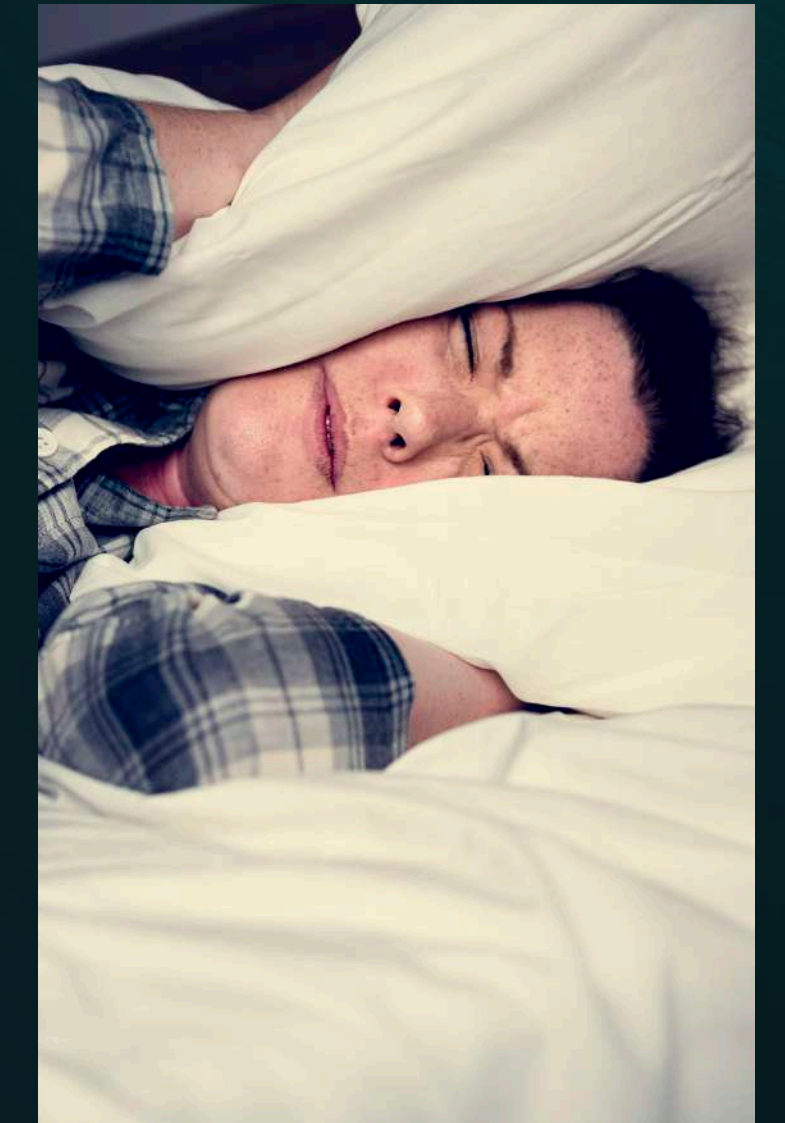
Dimension: 68 x 65 x 20.5 mm  
 Operating Temperature: -20°C to +60°C  
 Measurement Range: 30dBA - 120dBA , 35dBC - 120dBC  
 IP Rating: IP30  
 Battery: 2x 2,700 mAh ER14505 Li-SOCl<sub>2</sub> (Replaceable)



Noise



Up to 1-4 years



## Use-Cases:



Urban Areas



Airport Zones



Residential Zones



Industrial Zones

## Key Features:



Monitor Noise / Sound Levels



Alerts via Email/SMS/Call/ Instant Messaging



Get Real-time Notifications



Detailed Device Readings

Did you know?

Noise above **70db** over a prolonged period of time may start to damage your hearing.

Scan for more info.





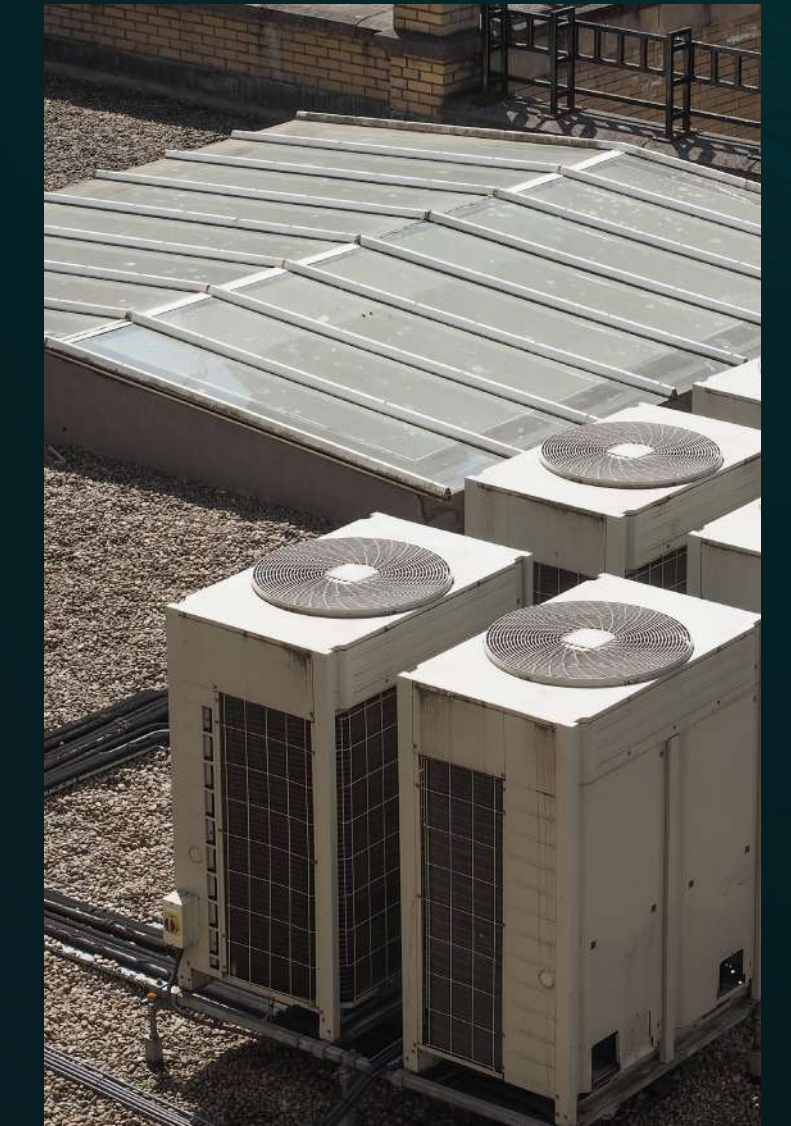
# Industrial Asset Monitoring



Industrial Temperature Monitoring solutions, designed to enhance operational efficiency and safety across a wide range of industries. We offer intuitive, real-time monitoring solutions by leveraging state-of-the-art IoT technology.

## Why is it important?

- Safety First
- Energy Efficiency
- Equipment Longevity
- Product Quality
- Predictive Maintenance
- Optimized Operations



## Use-Cases:

- Industrial Facilities
- Power Industry
- Chemical Plants
- Oil Industries

## Key Features:

- Monitor Equipment Temperature & Vibration
- Alerts via Email/SMS/Call/Instant Messaging
- Get Real-time Notifications
- View Analytics Based on Sensor Readings

Scan for more info.



The dashboard displays a 'Vibration Monitoring' section with 'Last Readings' and 'Active Alarms'. The 'Last Readings' section shows:

- Temperature: 16° C (Avg) at 2 Mar 2023, 12:00pm
- Min. Temp: -6° C (Avg) at 2 Mar 2023, 12:00pm
- Acceleration X: 3 M/S<sup>2</sup> (Avg) at 2 Mar 2023, 12:00pm
- Max. Temp: 77° C (Avg) at 2 Mar 2023, 12:00pm
- Acceleration Y: 8 M/S<sup>2</sup> (Avg) at 2 Mar 2023, 12:00pm
- Acceleration Z: .7 M/S<sup>2</sup> (Avg) at 2 Mar 2023, 12:00pm

The 'Active Alarms' section shows 6 active alarms:

- Min. Temp 65° C - Poor (Unacknowledged) at 2 Mar 2023, 12:00pm
- Temperature 77° C - Problem (Acknowledged) at 2 Mar 2023, 12:00pm
- Acceleration X 6 M/S<sup>2</sup> - Poor (Acknowledged) at 2 Mar 2023, 12:00pm
- Max. Temp -30° C - Problem (Acknowledged) at 2 Mar 2023, 12:00pm
- Acceleration Y 90 M/S<sup>2</sup> - Problem (Unacknowledged)

The 'Assets Readings' table shows:

Date	Sensor	Reading	Aggregation
5 April, 2023 - 4:30Pm	Temperature	65° C	Min <sup>3</sup>
5 April, 2023 - 4:30Pm	Min. Temperature	17° C	Avg <sup>2</sup>



# Industrial Asset Monitoring

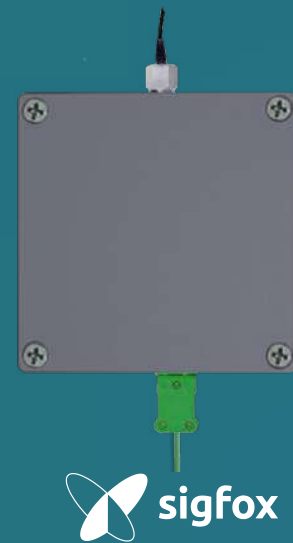


“Elevate operations with our Industrial Asset Monitoring.”

## Industrial Asset Temperature Monitoring - 1 Probe

Product Code: IAS-SIGX-024

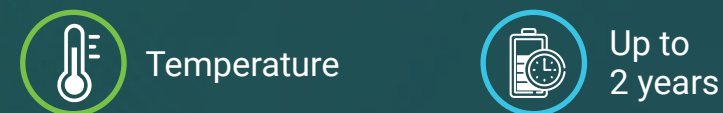
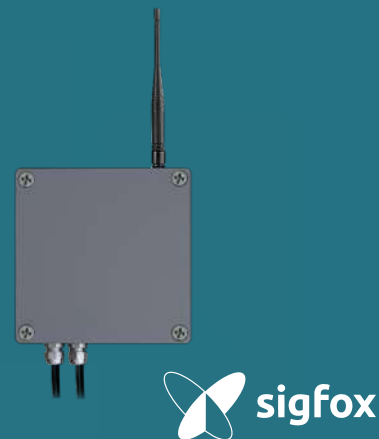
Dimension: 80 x 82 x 55 mm  
 Antenna: SMA Antenna Connector  
 Cable Length: 2.5m  
 Temperature Range: 0°C to 1,000°C  
 IP Rating: IP67



## Industrial Asset Temperature Monitoring - 4 Probes

Product Code: IAM-SIGX-024

Dimension: 82 x 40 x 56 mm  
 Temperature Range: 0°C to 450°C  
 IP Rating: IP67



## Industrial Temperature Sensor

Product Code: ITS-LORX-023

Dimension: 96 x 64 x 40 mm  
 Weight: 150g  
 Power Supply: Single LiSOCl<sub>2</sub> Primary Cell, 3.6V  
 Operating Temperature: -40°C to 80°C  
 IP Rating: IP65



## Industrial Temperature Transmitter

Product Code: ITT-LORX-023

Dimension: 95 x 64 x 39 mm  
 Weight: 150g  
 Battery Type: 2x Type A (Replaceable)  
 Operating Temperature: -40°C to 80°C  
 IP Rating: IP65  
 Measuring Range\* : -270°C to 2,300°C  
 \*Depending on the type of thermocouple



## Industrial Vibration Sensor

Product Code: IVS-LORX-023

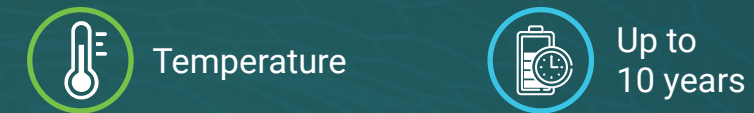
Dimension: 100 x 70 x 45 mm / 3m (cable length)  
 Battery Type: 2x Type A (Replaceable)  
 RMS Velocity: 0.0 - 200.0 mm/s  
 Acceleration: 0 - 150 m/s<sup>2</sup>  
 Measuring Range\* #1 : 5 to 1,000 Hz  
 \*3dB points at 5 Hz and flat at 1000 Hz  
 Measuring Range\* #2: 5 to 6.66 kHz | \*3dB Points



## Industrial Temperature Sensor

Product Code: ITP-LORX-030

Dimension: 105.4 x 71 x 69.5 mm  
 Cable Length: 1.5m (Customizable)  
 Measuring Range: -50°C to 500°C  
 Battery: 19000 mAh Li-SOCL2 (Replaceable)  
 Operating Temperature: -30°C to 70°C  
 Probe Type: Straight tube





# Gas Detection



Our IoT Solution for Gas Monitoring is designed to detect natural gas leaks and provide timely alarms. This gas detector ensures the safety of residential environments by providing reliable real-time detection and enabling prompt actions to mitigate risks.

## Why is it important?



Health Protection



Prevention of Accidents



Rapid Emergency Response



Early Detection



Compliance with Regulations



## Key Features:



Detect Methane Gas



Alerts via Email/SMS/Call/Instant Messaging



Get Real-time Notifications



Detailed Device Readings

“Rise above the risk – detect and protect with our Gas detection solution.”

Scan for more info.



## Use-Cases:



Residential Homes



Indoor Public Spaces



Hospitality Industry



Schools & Universities

### Residential Gas Monitoring

Product Code: RGS- LORX-030

Dimension: 120 x 85 x 32.5 mm

IP Rating: IP30

Operating Temperature: -10°C to 55°C

Operating Humidity: 0 to 95 % RH

Alarm Volume: 85 dBA at 1 meter



Methane (CH<sub>4</sub>)



Up to 800 Historical Records



Powered by DC Adapter



LoRaWAN



# Ignite Meter



Your ultimate solution for efficient and responsible utility management. We're here to help you keep track of your utility consumption, giving you the power to conserve resources, reduce costs, and ensure sustainability.



Transparency and Accuracy



Promoting Sustainability



Cost-Effective



## Solutions Included:



### Gas Metering

• Keep an eye on gas usage, detect leaks, and generate bills based on actual consumption.



### Water Metering

• Real-time monitoring of water consumption for optimized usage and accurate billing.



### Power Metering

• Track electricity consumption, manage energy usage, and ensure accurate billing based on actual consumption.

## Connectivity:



Scan for more info.



“ Empowering resource efficiency through Smart Utility Management. ”

## Key Features:



Monitor Consumption in Real-time



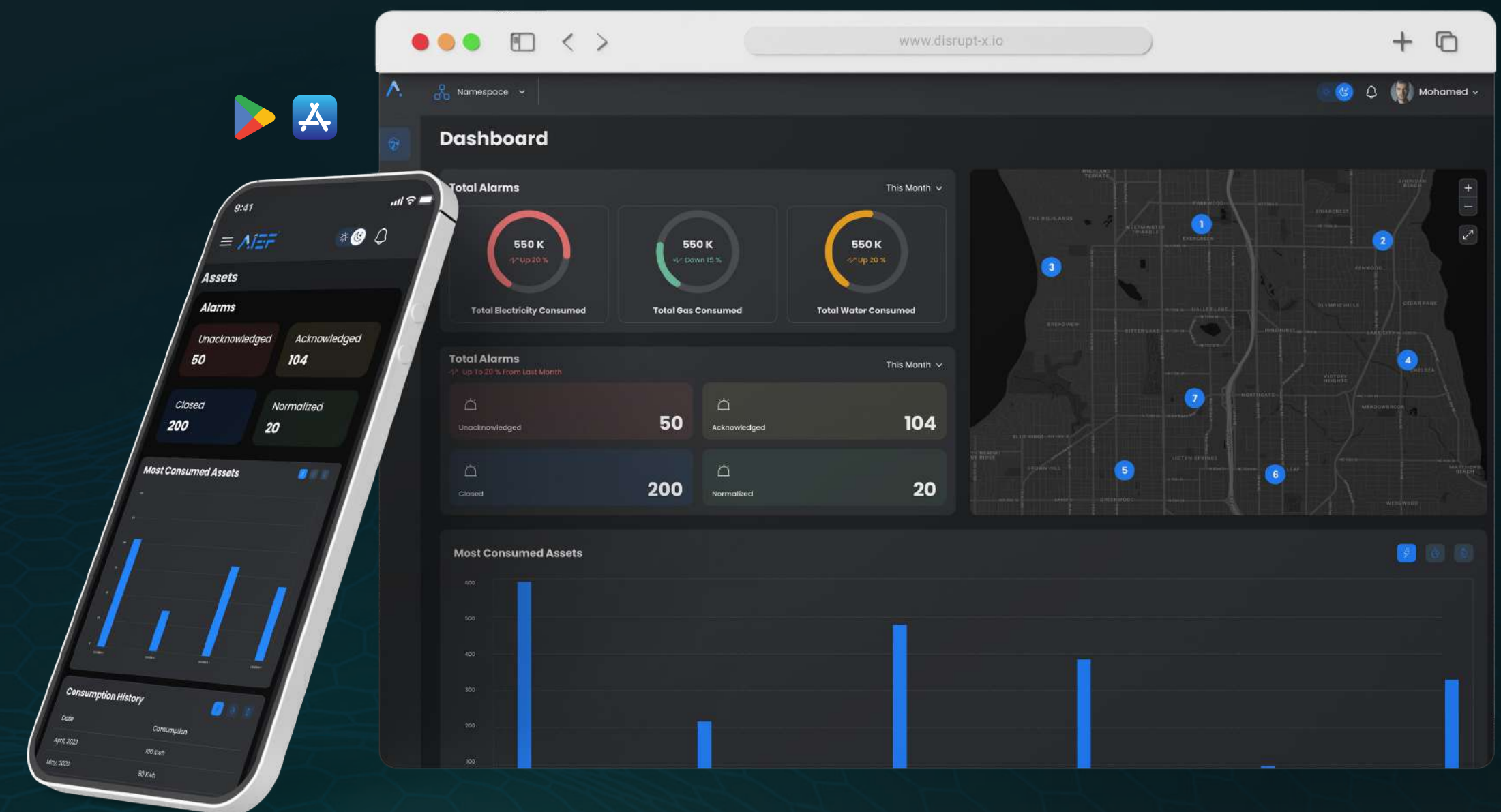
Attach Pricing Templates for Accurate Billing



View Analytics Based on Sensor Readings



Get Customized Reports - Weekly / Monthly / Quarterly





# Gas Metering



Elevate your gas consumption and management strategies with our IoT-powered Gas Metering solution. Monitor usage, detect inconsistencies, and ensure safety in an efficient and seamless manner with Ignite Meter.

## Why is it important?



Consumption Awareness



Cost Efficiency



Accurate Billing



Usage Trend Analysis



Remote Monitoring



Reports on Monthly Consumption

## Key Features:



Monitor Gas Consumption



Detailed Device Readings



Get Real-time Notifications



Alerts via Email/SMS/Call/Instant Messaging

## Use-Cases:



Residential Homes



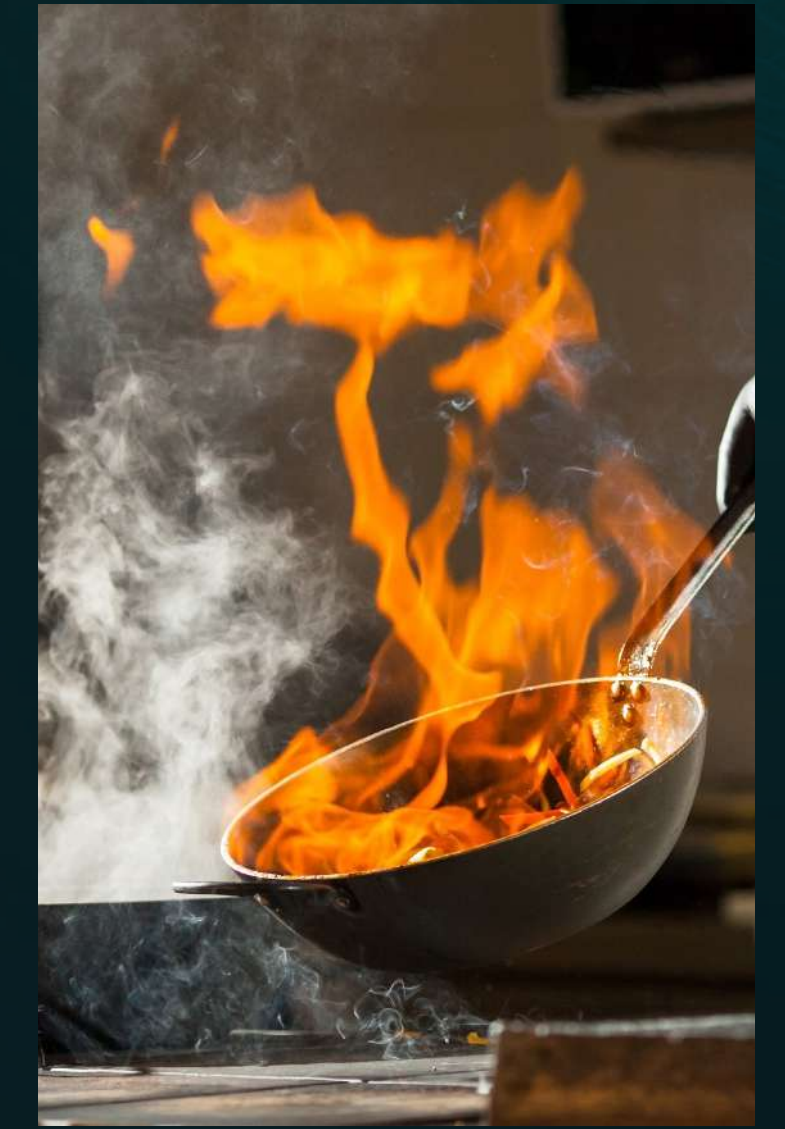
Commercial Buildings



Industrial Facilities



Food & Beverage Sector



“Turn insights into savings; monitor, manage, and master your gas usage.”

Scan for more info.



### Gas Meter

Product Code: GMT-SIG1-009  
GMT-LOR1-009

Dimension: 202 x 224 x 177 mm

IP Rating: IP65

Operating Temperature: -10°C to 55°C

Power Supply: 3.6 V Lithium Battery

Meter Variant: G1.6, G2.5, G4, G6, G10, G16, G25



Sensor life up to 5 years



Up to 3 years





# Water Metering



Our Water Metering solution combines advanced technology with a user-friendly interface to monitor your water consumption in real-time. We ensure every drop is accounted for, contributing to a more sustainable future.

## Why is it important?



Consumption Awareness



Cost Efficiency



Accurate Billing



Usage Trend Analysis



Remote Monitoring



Water Leak Detection



### Valve Control Ultrasonic Water Meter

Product Code: VDN-LORX-033  
VDN-SIGX-033



sigfox LoRaWAN

Installation: 360 degree  
Pressure Loss:  $\Delta P \leq 40\text{kPa}$   
Storage Temperature:  $-20\text{ }^\circ\text{C}$  To  $+60\text{ }^\circ\text{C}$   
IP Code: IP65 / IP68  
DN Sizes: DN15 , DN20, DN25



Up to 10 years

## Use-Cases:



Commercial Buildings



Hospitality Sectors



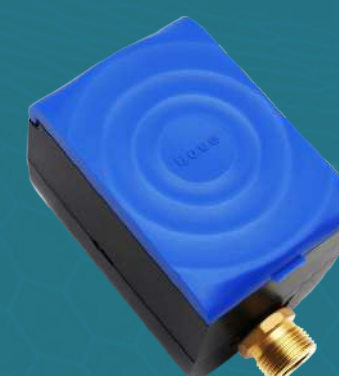
Residential Homes



Industrial Zones

### Ultrasonic Water Meter

Product Code: WDN-LORX-033  
WDN-SIGX-033



sigfox LoRaWAN

Material: Brass 59-1  
Pressure Loss:  $\Delta P \leq 40\text{kPa}$   
Storage Temperature:  $-20\text{ }^\circ\text{C}$  To  $+60\text{ }^\circ\text{C}$   
IP Code: IP68  
DN Sizes: DN15 , DN20, DN25, DN40



Up to 10 years

## Key Features:



Monitor Water Consumption



Accurate Billing Through Consumption Analysis



Real-time Notifications on Abnormalities



Generate Customized Reports

Scan for more info.





# Power Metering

With our Electricity Metering solution, redefine your approach to energy management. Stay abreast with your energy usage in real-time, detect excesses, and boost efficiency with Ignite Meter.

## Why is it important?

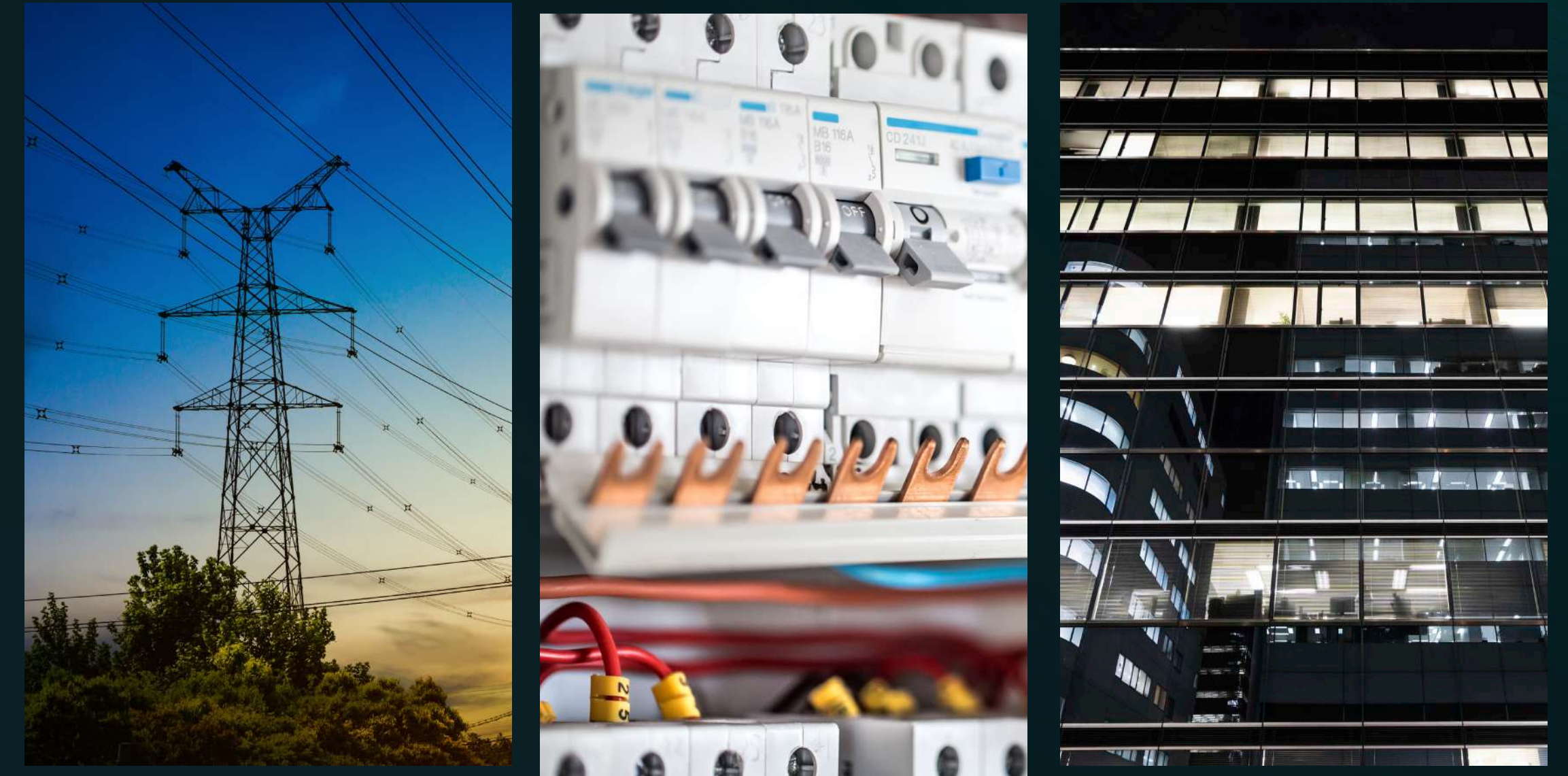
- Consumption Awareness
- Cost Efficiency
- Accurate Billing
- Predictive Maintenance
- Remote Monitoring
- Fault Detection

## Key Features:

Monitor Power Consumption	Detailed Device Readings
Get Real-time Notifications	Alerts via Email/SMS/Call/Instant Messaging

## Use-Cases:

Residential Homes	Commercial Buildings	Industrial Facilities	Data Center
-------------------	----------------------	-----------------------	-------------



“Illuminate your energy insights with our smart metering solution.”

Scan for more info.



<h3>Power Meter</h3> <p>Dimension: 72 x 94.5 x 65 mm Weight: 330g IP Rating: IP51 (indoor) Operating Temperature: -25°C to 55°C Humidity Rating: &lt;95% RH at 50°C Type of measurement: RMS including harmonics on three phase AC system (3P, 3P+N)</p>	<p>Product Code: PMM-LORX-039</p> <p>LoRaWAN</p>
--	--



# Metro Locks



As the digital world continues to transform, Metro Locks is part of the movement towards smarter, more intuitive access control. From managing parking spaces to safeguarding assets with intelligent padlocks, our system is designed to provide users with more control and peace of mind.



Enhanced Security



Optimized Utilization



Improved Accountability

## Solutions Included:



### Smart Locks

• Secure your assets with smart locks that offer keyless access and real-time monitoring.



### Smart Parking Locks

• Streamline parking management with intelligent locks, preventing unauthorized use of parking spaces and enhancing security.

“Securing Your World **with Intelligence.**”

## Key Features:



Real-time Monitoring of Lock Status



Custom Alerts on Unauthorized Access Attempts.



Grant or Revoke Access Remotely



Track Usage Patterns and Access Logs



Connectivity:



NB-IoT™



4G



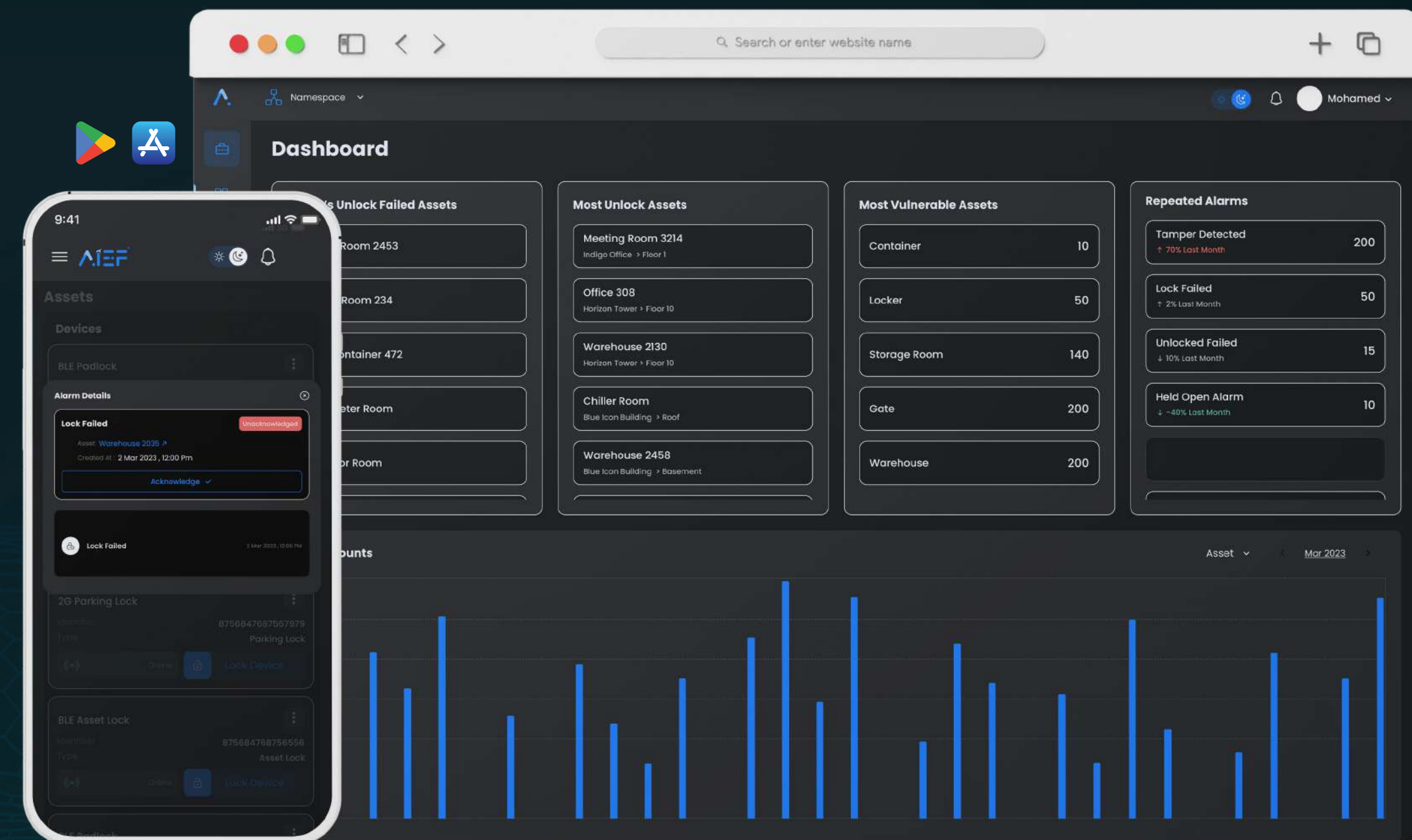
5G



BLE



LTE



Scan for more info.





# Smart Locks

Smart Locks are a technological leap from traditional security methods. A distinct offering from Metro Locks, these padlocks utilize cutting-edge BLE and 4G technologies to offer a level of access control that is both easy to manage and highly secure.

## Why is it important?



Enhanced Security



Flexible Access Permissions



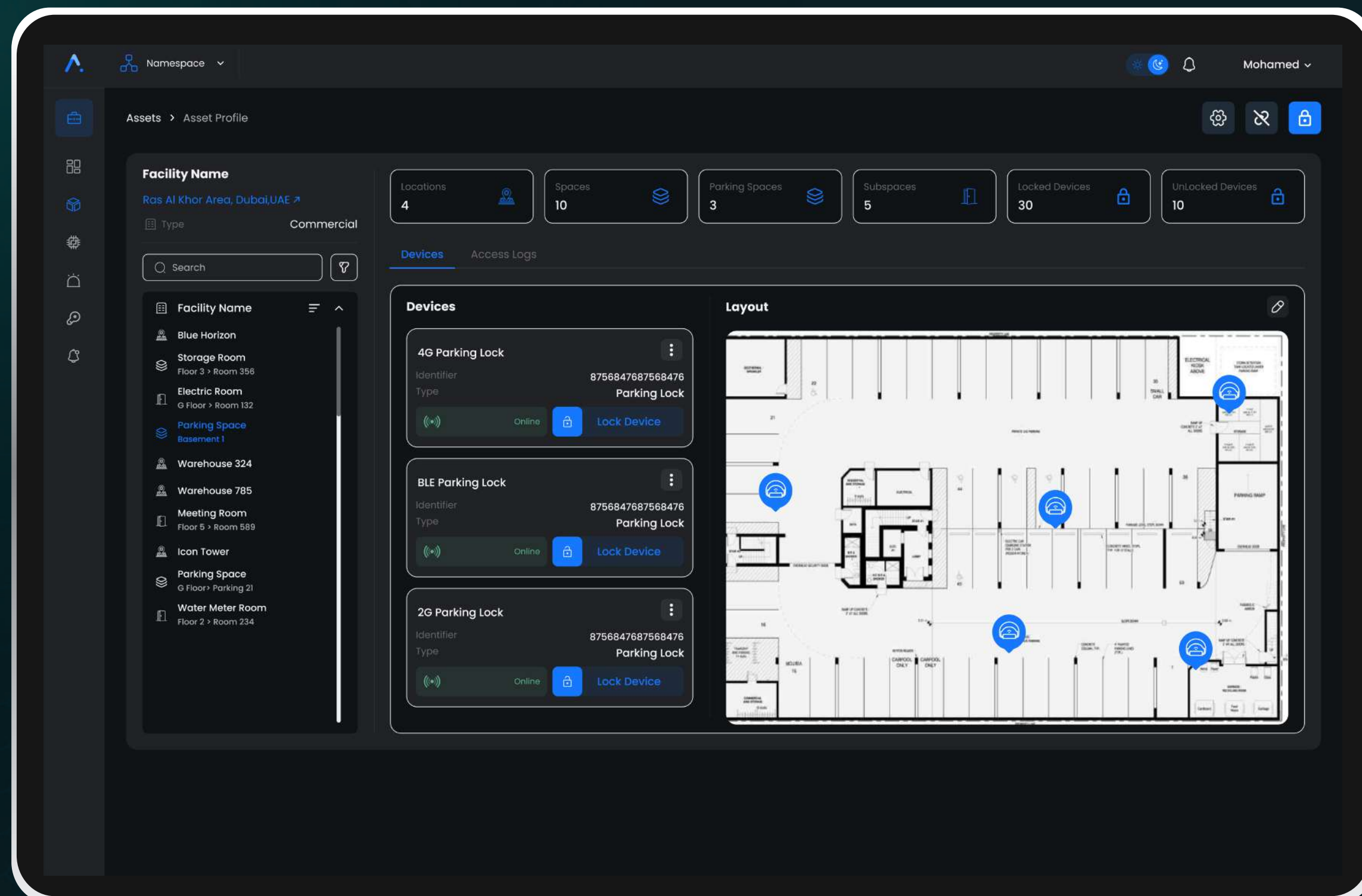
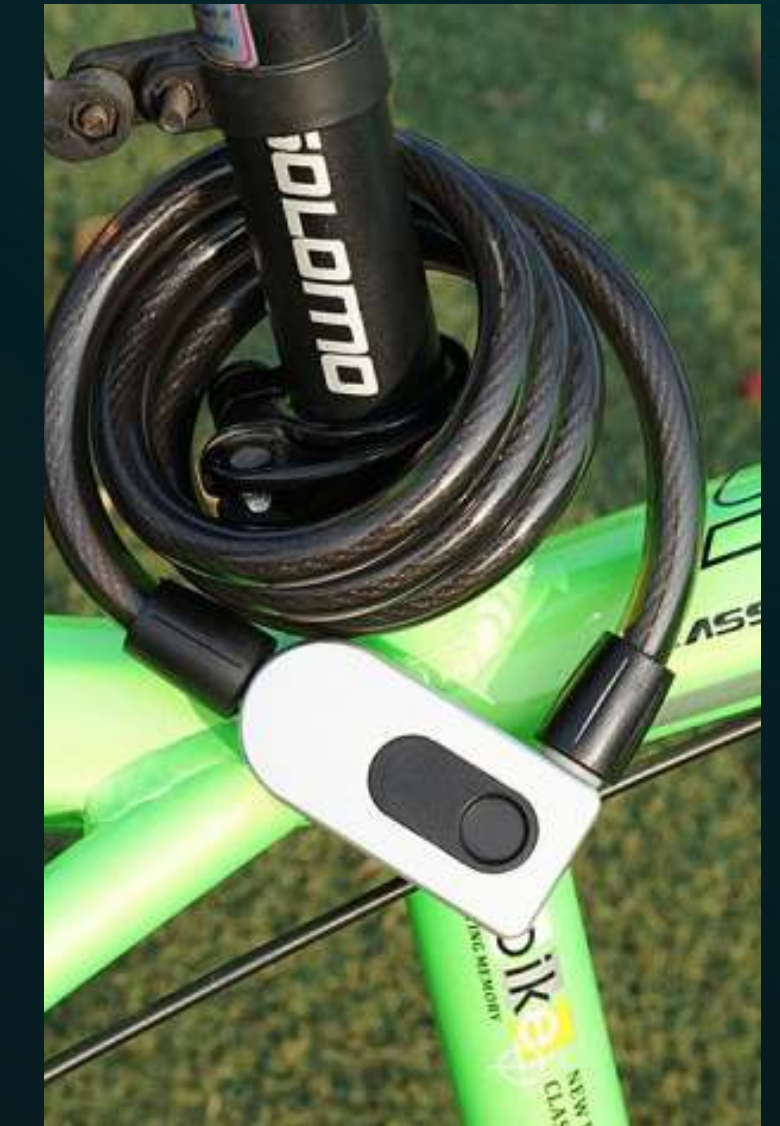
Real-time Notifications



Elimination of Physical Key Issues



Prevent Unauthorized Duplication of keys



“Share access, secure instantly; the padlock reimaged.”



## Key Features:



Unlock Via Bluetooth or Remotely via 4G



Grant Access to Visitors / Employees



Get Real-time Notifications



Receive Alerts on Unauthorized Access Attempts/Tamper



# Smart Locks



**“ Safety, convenience, and peace of mind,  
all at the touch of a button.”**

## Smart BLE Padlocks

Product Code: PDL-BLE-013

Battery: 600 mAh  
Dimension: 78 x 50 x 23 mm  
Weight: ~190g  
Operating Temperature: -20°C to 70°C

Up to 10,000  
Unlocks

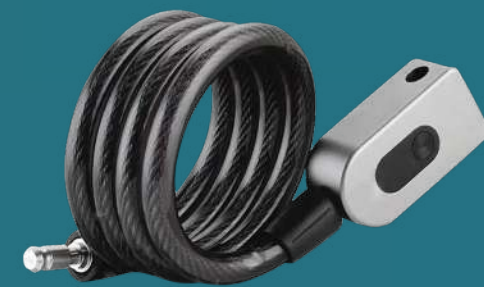


## Smart BLE Asset Locks

Product Code: ASL-BLE-013

Battery: 800 mAh  
Length: ~1 meter  
Weight: 340g  
Material: 6061 Aluminum Alloy

Up to 10,000  
Unlocks



## Smart 4G/BLE Padlock

Product Code: PDL-4G-014

\*Device is compatible with Asset  
Watch application

Dimension: 111 x 82 x 42 mm  
Weight: ~900g  
Battery: 10,000 mAh  
Operating Temperature: -20°C to 60°C  
IP Rating: IP67  
Lock Life: Rechargeable



Offline  
Password



Lock /  
Unlock



Geofence  
Tracking



Rechargeable  
Battery



## Smart 4G Arm Locks

Product Code: AML-4G-014

\*Device is compatible with Asset  
Watch application

Dimension: 145 x 100 x 40 mm  
Weight: 1,775g  
Locking Size Range: 250 mm - 510 mm  
Holding Rod Diameter: 45mm  
Battery: 12,000 mAh  
IP Rating: IP67



Offline  
Password



Lock /  
Unlock



Rechargeable  
Battery



## Solar Padlock

Product Code: SPL-4G-017

\*Device is compatible with Asset  
Watch application

Dimension: 208 x 110 x 48 mm  
Weight: 1,050g  
Rope Length: 350mm (Standard)  
Battery: 14,400 mAh  
Operating Temperature: -25°C to 70°C  
IP Rating: IP67



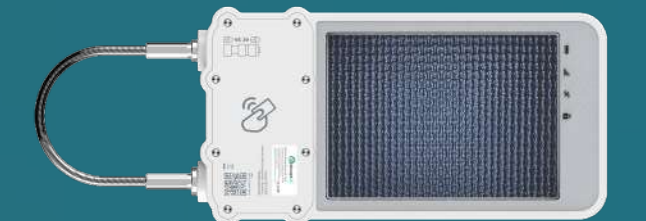
Geofence  
Tracking



Solar  
Powered



Rechargeable  
Battery



NB-IoT

## Use-Cases:



Equipment  
Storage



Lockers /  
Display Cases



Rental  
Properties



Gates / Fences



Warehouse



Containers



# Smart Parking Locks



As urban spaces grow denser and parking becomes a premium commodity, the need for advanced, secure, and easy-to-manage parking solutions becomes paramount. Our Smart Parking Locks employ BLE and 4G technologies, offering superior control and providing an additional layer of security for your vehicle parking.

## Why is it important?

- Enhanced Security
- Flexible Access Permissions
- Real-time Notifications
- Reduce Disputes on Parking Use
- Remote Access & Control

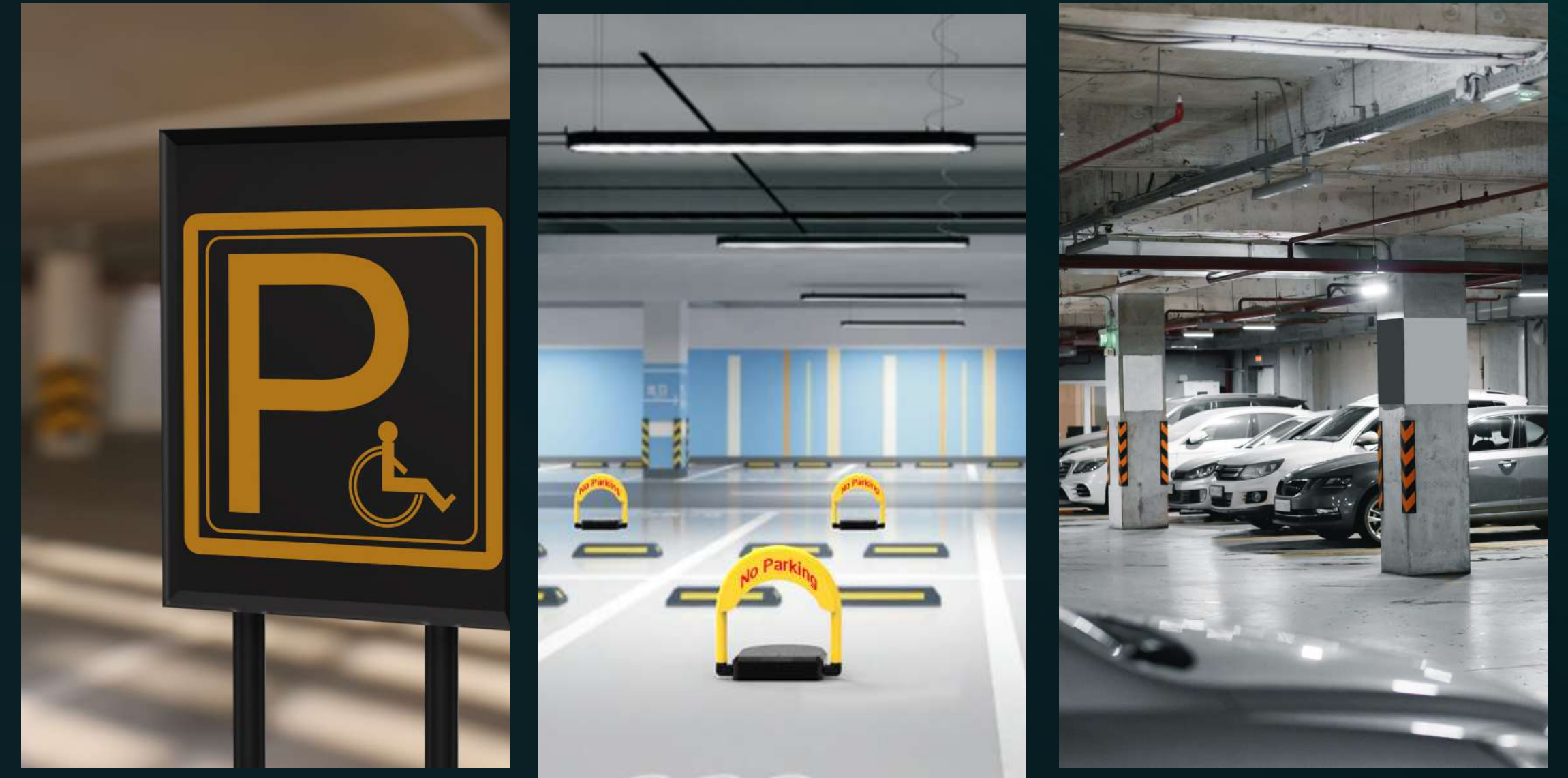
“Parking solutions for the modern city – smart, sleek, and secure.”

Scan for more info.



## Key Features:

	Unlock Via Bluetooth or Remotely via 4G		Grant Access to Visitors / Employees
	Get Real-time Notifications		Receive Alerts on Unauthorized Access Attempts/Tamper



## Use-Cases:

Residential Homes	Commercial Buildings	Hospitality Sectors	Schools & Universities

## Smart Parking Locks

Dimension: 360 x 360 x 65 mm  
 Weight: 4.95 kg  
 Battery: 60,000mAh  
 Operating Temperature: -10°C to 60°C  
 IP Rating: IP68

Product Code: PKL-BLE-015

\*Option available with 4G (PKL-4G-015)



Sensor life up to 5 years

Up to 6 months





# Asset Watch



In a fast-paced, digitally connected world, knowing where your assets are at any given moment is a crucial part of effective management. Asset Watch brings this ability to your fingertips, offering comprehensive indoor and outdoor tracking solutions.



Locate Assets Instantly



Optimize Asset Usage



Prevent Losses

## Solutions Included:



### Asset Tracking

• From equipment to containers, track all your business assets indoor and outdoor efficiently.



### Personnel Tracking

• Keep track of your team's location in real time for enhanced safety and productivity.



### Mobile Cold Storage

• Monitor your mobile cold storage units to ensure optimal temperature, and thereby, the quality of the stored goods.

## Key Features:



Real-time Asset Tracking



Geofencing Capabilities



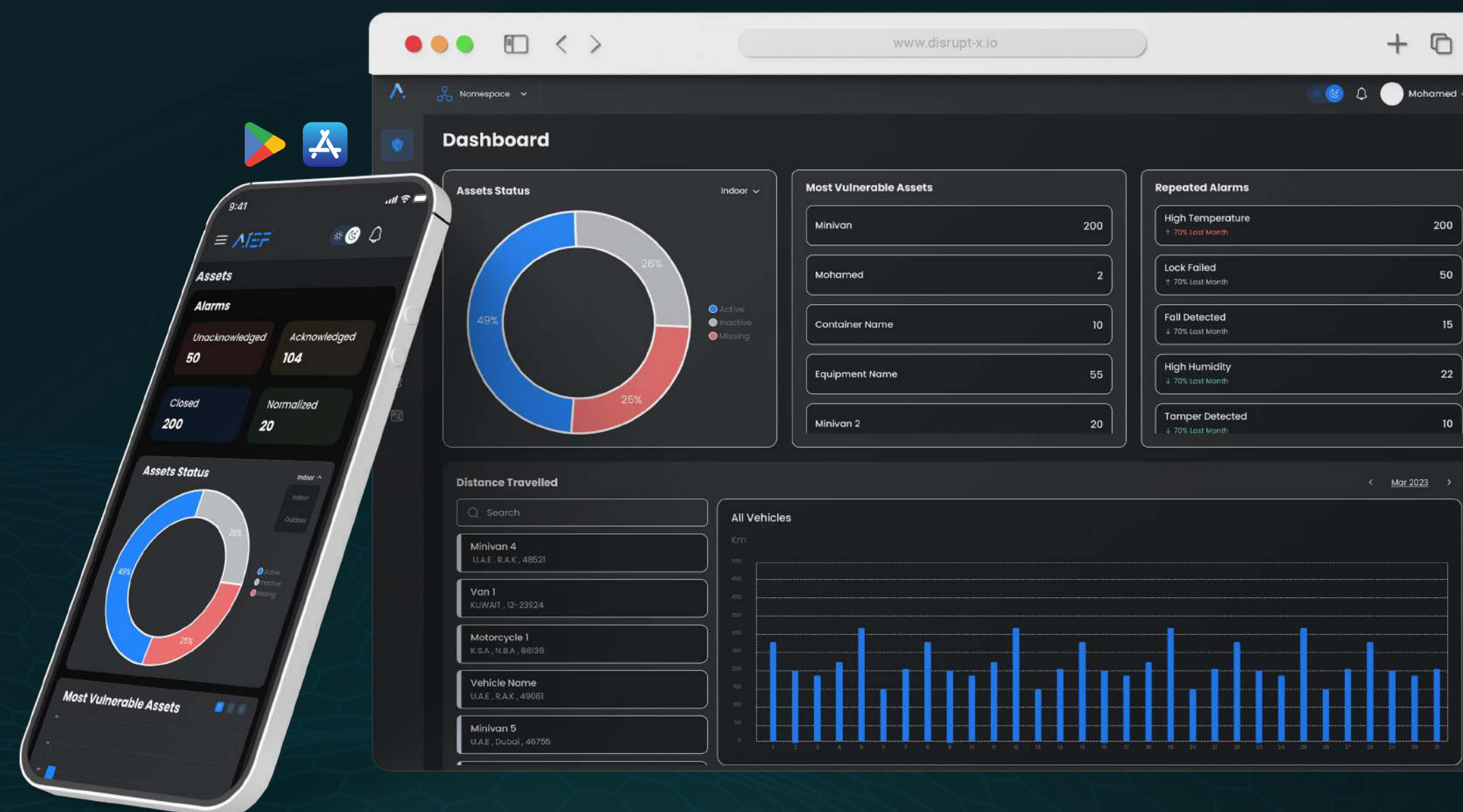
Generate Customized Reports



Track Asset Usage and Movement Patterns



## Connectivity:



Scan for more info.





# Indoor Asset Tracking



Transform your approach to monitoring and managing both movable and immovable assets indoors. With the power of IoT, our solution offers accurate indoor location tracking, granting you full visibility and control over your assets within enclosed spaces.

## Why is it important?



Enhanced Security



Precise Asset Monitoring



Reduced Search Times



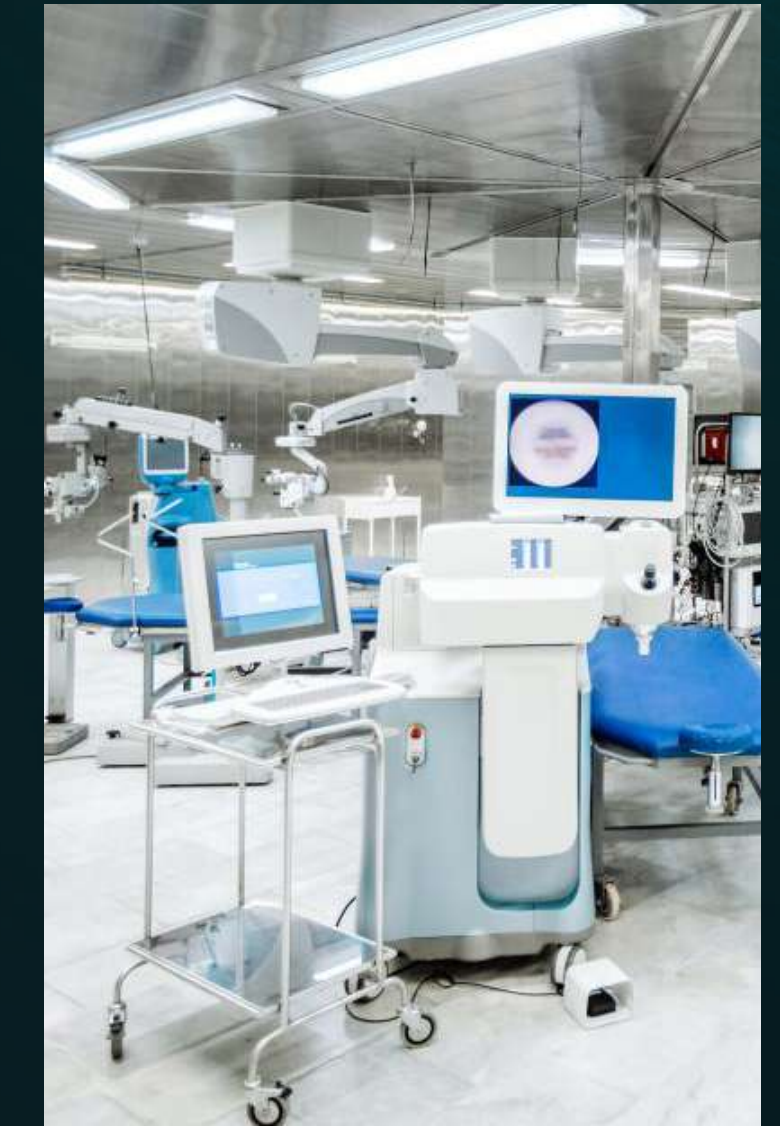
Theft Prevention



Operational Efficiency



Indoor Zoning



“Streamline, optimize, and revolutionize with real-time indoor asset visibility.”

Scan for more info.



## Key Features:



Real-time Asset Tracking Indoor



Indoor Mapping



Alerts & Notifications on Asset Movement



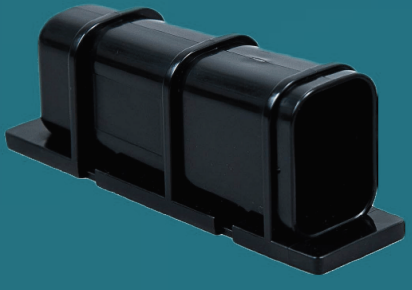




Generate Asset Utilization Reports













# Indoor Asset Tracking



 BLE beacons are required for Indoor Tracking

<b>Indoor Asset Tracker</b>	Product Code: IAT-SIG1-001
Battery: 5,400 mAh Dimension: 30 x 110 x 40 mm Weight: ~86g Operating Temperature: -40°C to 50°C Casing: IP68	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Sensor life up to 5 years</p> </div> <div style="text-align: center;">  <p>Up to 5 years 4 messages / day</p> </div> </div>	 

<b>Indoor Asset Tracker</b>		Product Code: IST-LOR1-003
Battery: AA LTC Dimension: 65 x 24.5 x 26 mm Operating Temperature: 0°C to 60°C Casing: IP30 LoRa Device Class: Class A		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Tracker Mode: Up to 5 years</p> </div> <div style="text-align: center;">  <p>Beacon Mode: Up to 16 months</p> </div> </div>		

<b>Indoor Asset Tracker</b>		Product Code: IPT-LOR1-003
Dimension: 67 x 41 x 32 mm Battery: C-cell Operating Temperature: -40°C to 85°C IP Rating: IP67 LoRa Device Class: Class A		
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Tracker Mode: Up to 15 years</p> </div> <div style="text-align: center;">  <p>Beacon Mode: Up to 18 months</p> </div> </div>		

## Use-Cases:






Hospital  
Equipments




Warehouse  
Inventory



Manufacturing  
Machinery



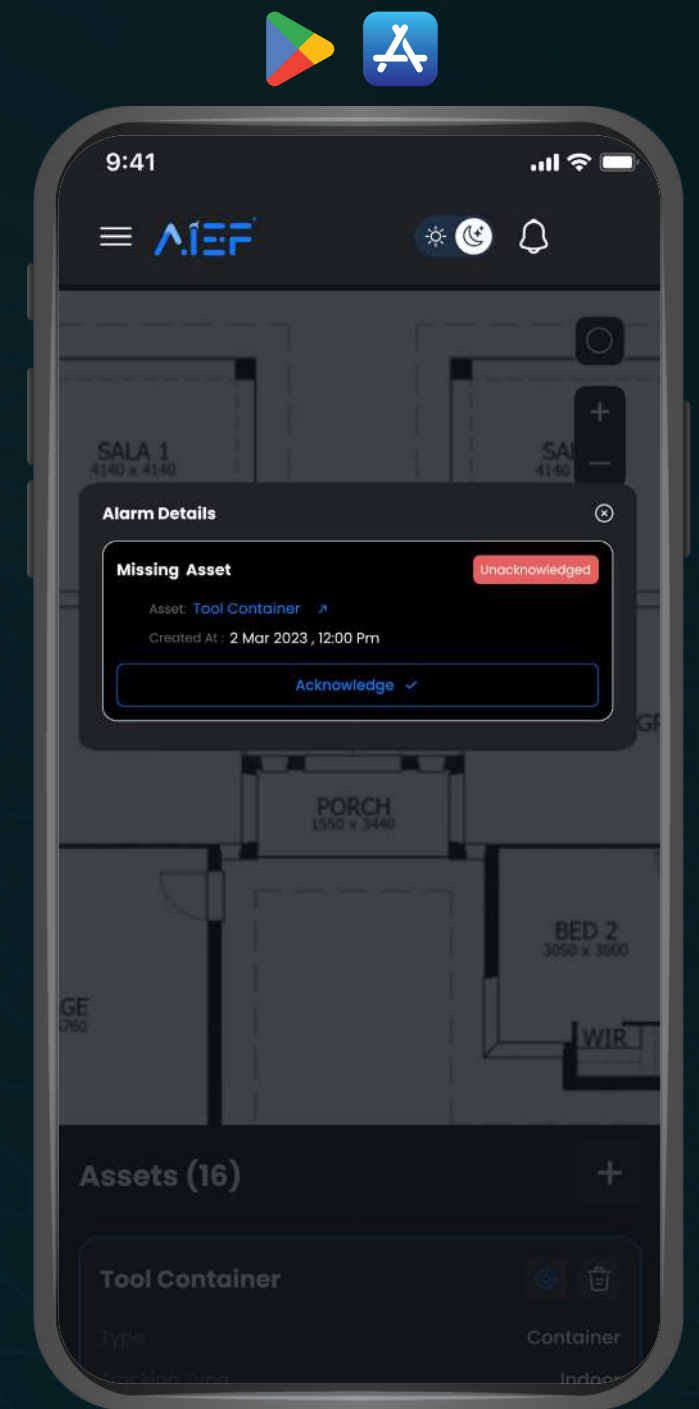
Valuable  
Goods Tracking



Office  
Spaces



Museums and  
Art Galleries





# Outdoor Asset Tracking



Optimize the way you handle your assets in outdoor settings. Our Outdoor Asset tracking solution offers pinpoint location tracking, ensuring you're always in command and informed about your assets' whereabouts.

## Why is it important?



Security & Theft Prevention



Real-time Tracking



Reduced Search Times



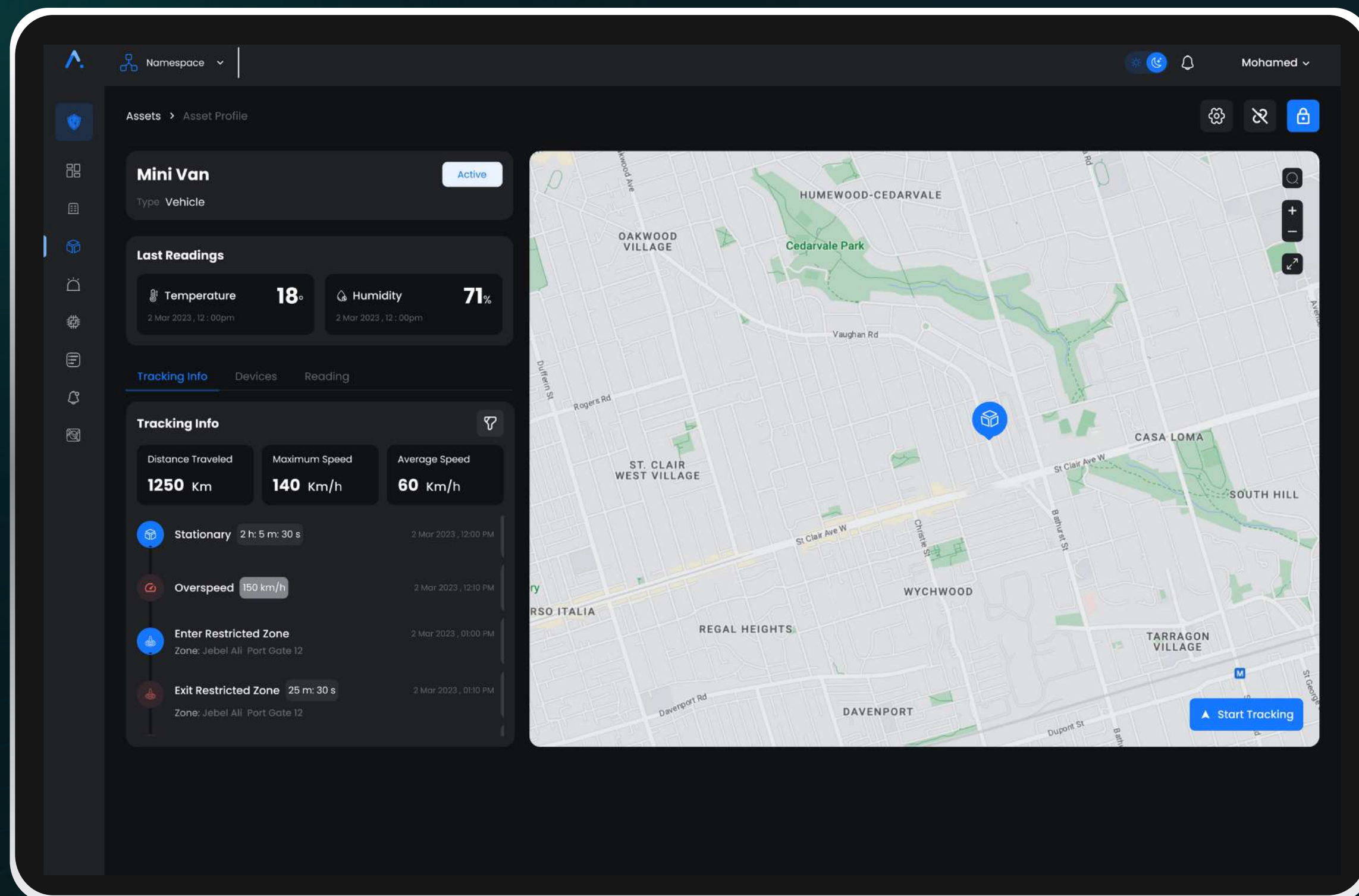
Wide Coverage Area Tracking



Operational Efficiency



Geofencing Capabilities



“Track beyond boundaries; redefine your asset management outdoors.”

Scan for more info.



## Key Features:



Real-time Asset Tracking Outdoor



Set Geographical Boundaries



Alerts & Notifications on Asset Movement



Generate Asset Utilization Reports



# Outdoor Asset Tracking



 BLE beacons are required for Indoor Tracking

## Outdoor Industrial GPS Tracker



Dimension: 195 x 101 x 50 mm  
 Battery: 2 D-cell  
 Operating Temperature: -40°C to 85°C  
 IP Rating: IP67  
 Reporting Interval: 1 hour



Product Code: OOT-LOR1-003

\*Applicable for indoor use.



LoRaWAN

## Outdoor Solar Asset Tracker

Dimension: 69 x 143 x 25 mm  
 Weight: 225g  
 Battery: 4,800mAh  
 Operating Temperature: -20°C to 60°C  
 IP Rating: IP67  
 Mounting: Magnet / Screw



Product Code: OST-4G-017



4G NB-IoT

## Outdoor Asset Tracker

Dimension: 78 x 63 x 28 mm  
 Weight: 115 g (with 2 cells battery)  
 Operating Temperature (without battery): -20°C to 60°C  
 IP Rating: IP68  
 Battery: 2200mAh, 2S, extremely low self-discharge Li-SOCI2 batteries 7.2V, Non-rechargeable



Product Code: OAT-4G-016



4G

## Use-Cases:



High-value Shipments



Shipments & Logistics



Rail Cars / Cargos



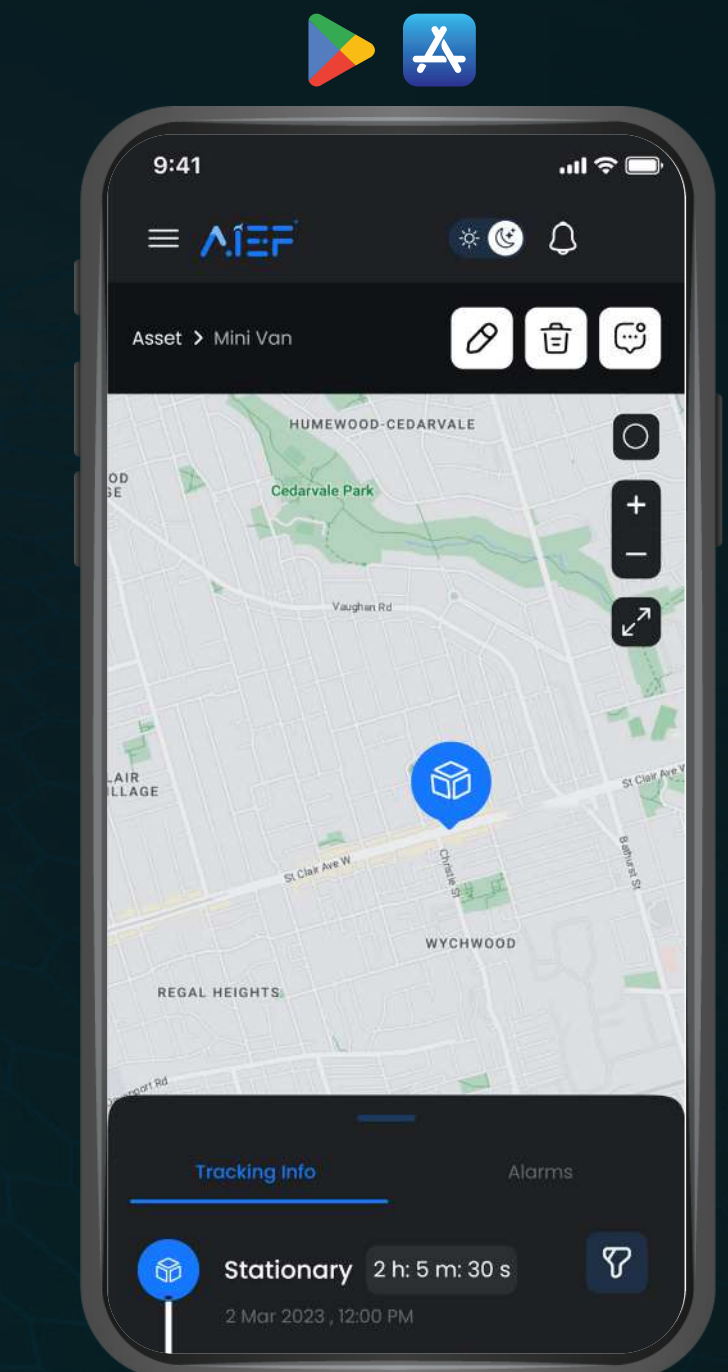
Military & Defense Assets



Asset Leasing



Utility Equipments





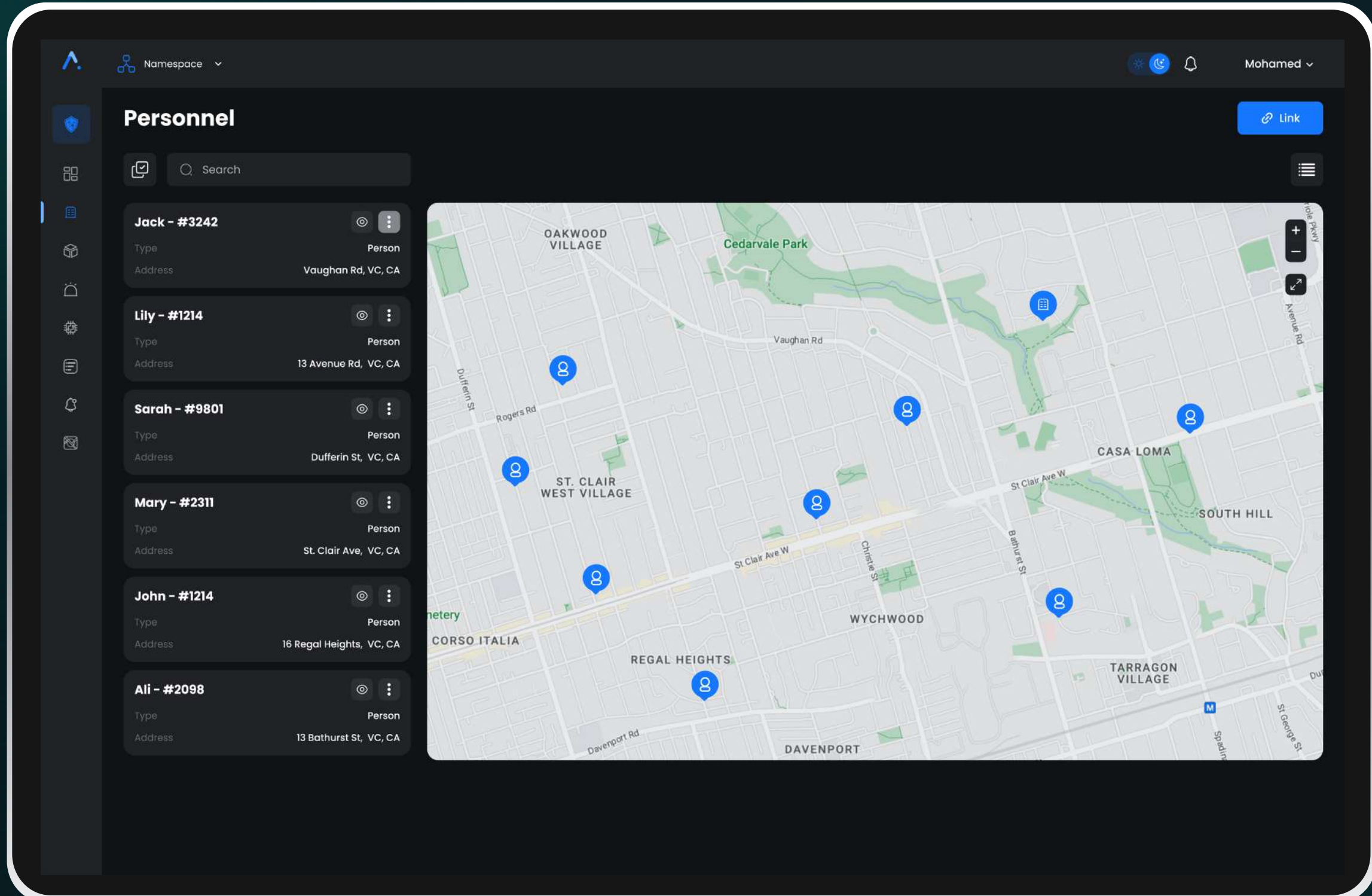
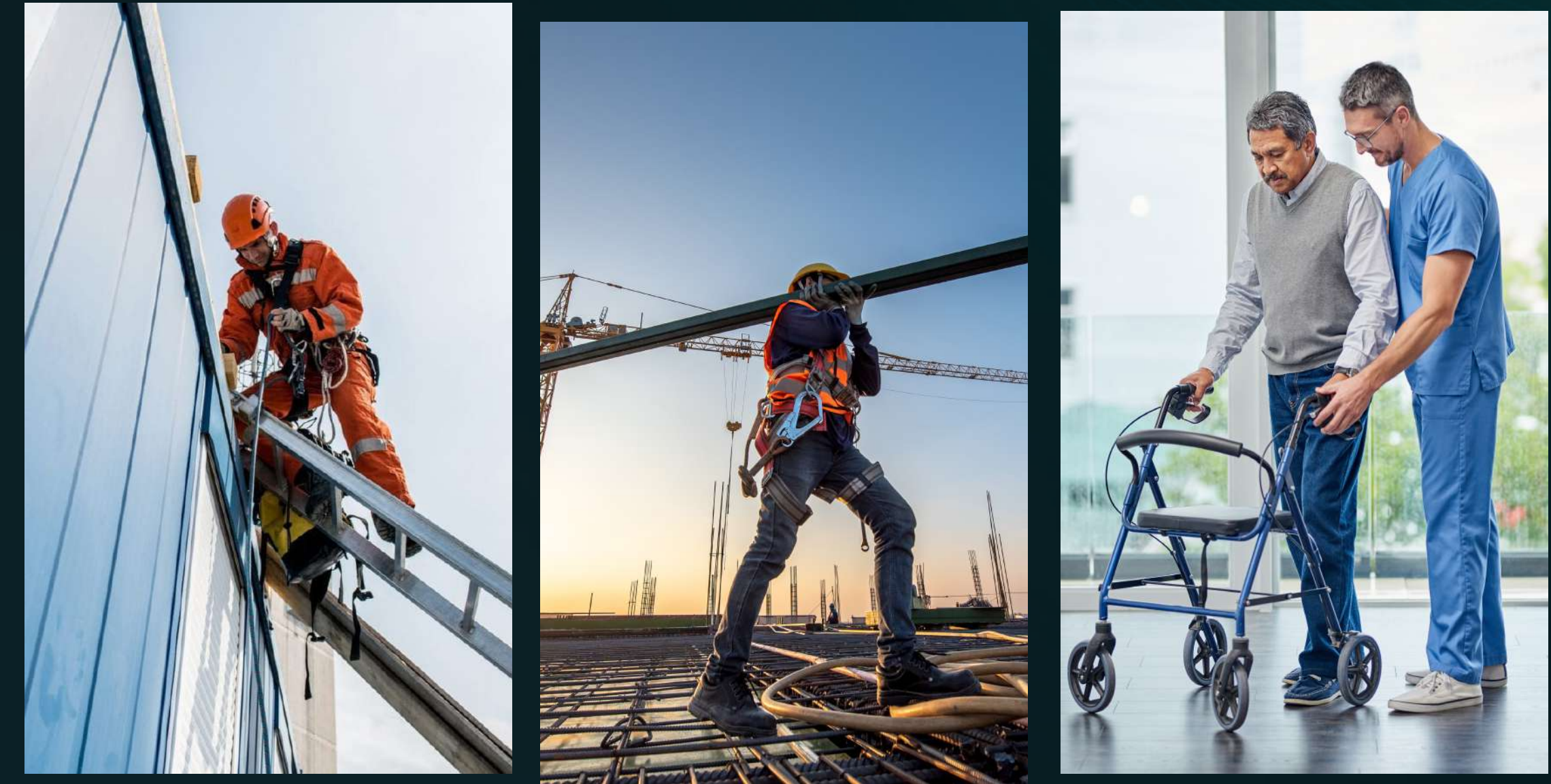
# Personnel Tracking



Asset Watch's Personnel Tracking solution brings a new era of workforce management. Whether for tracking staff during working hours, ensuring safety in high-risk zones, or managing emergency evacuations, our solution provides real-time location information for enhanced safety and productivity.

## Why is it important?

- Enhanced Safety
- Real-time Tracking
- Optimized Resource Allocation
- Rapid Emergency Response
- Improved Decision Making
- Geofencing Capabilities



“Crafting Safer, Smarter Work Environments with our Personnel Trackers.”




## Key Features:






- Real-time Personnel Tracking
- Set Geographical Boundaries
- Alerts & Notifications on Emergencies
- Generate Personnel Movement Reports











# Personnel Tracking



 BLE beacons are required for Indoor Tracking





<b>Smart Personal Tracker with Panic Button</b>	Product Code: PTB-4G-017
<p>Battery: Lithium-ion 6,400 mAh / 3.7V                  Dimension: 92 x 43.5 x 29 mm                  Weight: 80g                  Operating Temperature: -20°C to 80°C                  IP Rating: IP67</p>	 
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Motion Detection</div> <div style="text-align: center;"> Panic Button</div> <div style="text-align: center;"> Rechargeable Battery</div> </div>	

<b>Outdoor Wearable Personal Tracker</b>	Product Code: WPT-LOR1-003
<p>Dimension: 100 x 72 x 24 mm                  Battery: 3x AA Batteries                  Operating Temperature: -20°C to 50°C                  IP Rating: IP67                  LoRa Device Class: Class A</p>	<p><small>*Applicable for indoor use.</small></p>  
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Motion Detection</div> <div style="text-align: center;"> Up to 6 - 12 months</div> </div>	

<b>Smart Personal Tracker</b>	Product Code: IFT-LOR1-003
<p>Dimension: 70 x 22 x 25 mm                  Battery: AA LTC                  Operating Temperature: -20°C to 85°C                  IP Rating: IP30                  Reporting Interval: 1 hour</p>	 
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Panic Button</div> <div style="text-align: center;"> Up to 5 years</div> </div>	

## Use-Cases:

 <b>Construction Sites</b>	 <b>Factories &amp; Warehouses</b>
 <b>Healthcare Facilities</b>	 <b>Corporate Campuses</b>
 <b>Hospitality Industries</b>	 <b>Pilgrims</b>

<b>Outdoor &amp; Indoor Personal Tracker</b>	Product Code: OIA-LOR1-021
<p>Dimension: 85 x 55 x 6.5 mm                  Weight: 32g                  Battery: 700mAh, Lithium Battery                  Operating Temperature: -20°C to 60°C                  IP Rating: IP65</p>	 
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Panic Button</div> <div style="text-align: center;"> Up to 4 months on single charge. Rechargeable Battery</div> </div>	



# Mobile Cold Storage



Mobile Cold Storage solution caters to businesses that require temperature-controlled transportation of assets. Using IoT, we ensure the integrity of your temperature-sensitive goods during transit, optimizing the supply chain, and enhancing customer satisfaction.

## Why is it important?

- Quality Control Procedures
- Real-time Tracking
- Waste Reduction
- Real-Time Response
- Improved Decision Making
- Geofencing Capabilities



“Reliable. Efficient. Effective. **Navigate with Precision** for Your Temperature-Sensitive Goods.”



## Key Features:



Real-time Temperature Monitoring



Geo-Location Tracking



Customizable Thresholds & Alerts



Generate Customized Reports



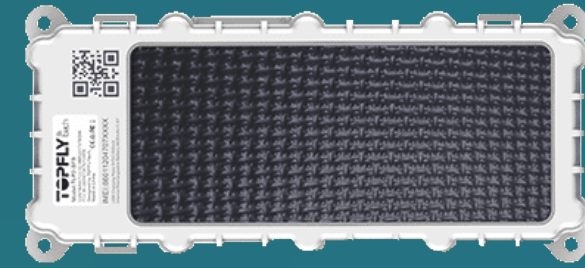
# Mobile Cold Storage



## Mobile Cold Storage

Product Code: MCS-4G-017

Battery: 9,600 mAh, Li-Polymer  
 Dimension: 85 x 185 x 31 mm  
 Weight: 370g  
 Operating Temperature: -25°C to 70°C  
 IP Rating: IP67



## Temperature & Humidity Sensor - Add-on Accessory

Product Code: THS-BLE-017

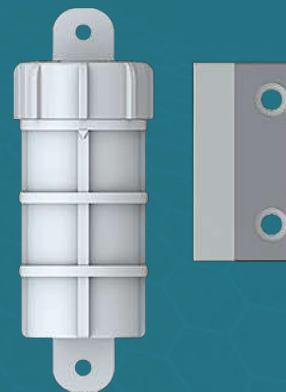
Battery: 1,000 mAh, CR2477 Replaceable  
 Dimension: 69.75 x 52.6 x 20 mm  
 Weight: 35g  
 Operating Temperature: -40°C to 85°C  
 Humidity Range: 10% - 90%



## Smart BLE Door Sensor - Add-on Accessory

Product Code: DOR-BLE-017

Dimension: 91.2 x 30.5 x 39 mm  
 Weight: 52g  
 Battery: 1,000 mAh, CR2 Replaceable  
 Operating Temperature: -40°C to 85°C  
 IP Rating: IP67



## Use-Cases:



Pharmaceuticals /  
Biological Samples



Cosmetics &  
Beauty Products



Agriculture  
Industry



Hazardous  
Materials



Frozen  
Foods



Catering for  
Airlines & Cruises





# Urban AI



Urban AI is a video analytics platform tailored for comprehensive urban management. By merging Smart Parking, Smart Space Management, and Smart Facility Analytics, our system offers a synergy of solutions that provide deep insights, efficiency, and optimization for urban spaces.

**Optimized Urban Efficiency**

**Informed Decisions Through Analytics**

**Elevate Security and Convenience**

**Connectivity:**

## Solutions Included:

**Smart Parking**

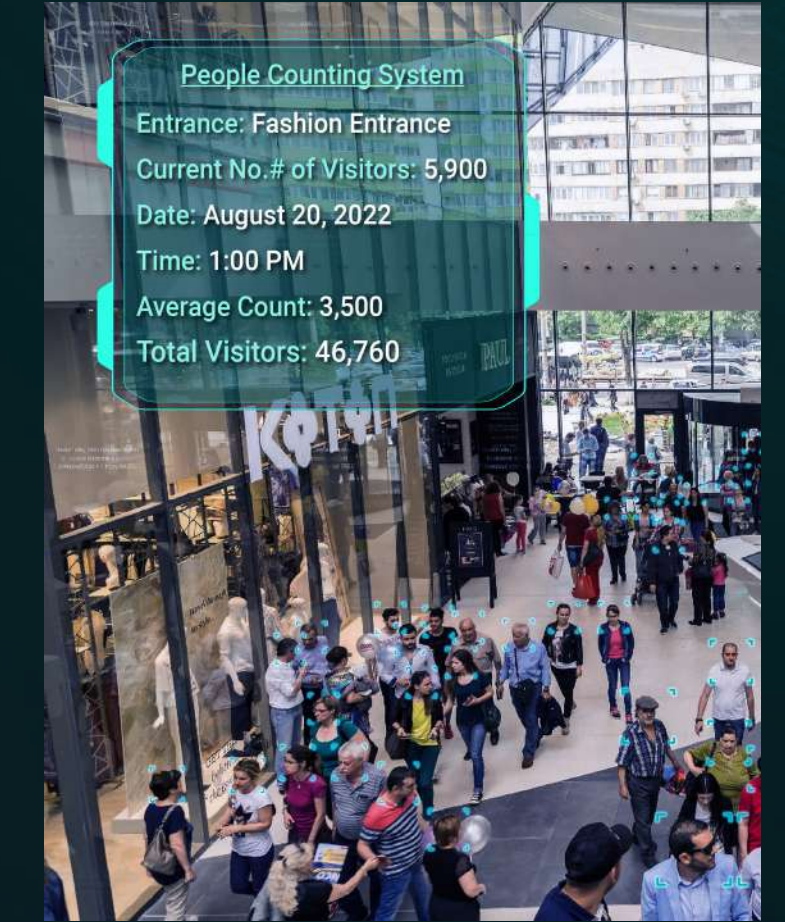
- Parking Slot Management
- Parking Occupancy

**Smart Space Management**

- Smart Space Reservation
- Occupancy Management

**Smart Facility Analytics - 2024**

- People Counting
- Demographics
- Survey / Feedback KIOSK



“Transforming Urban Spaces with Urban AI.”

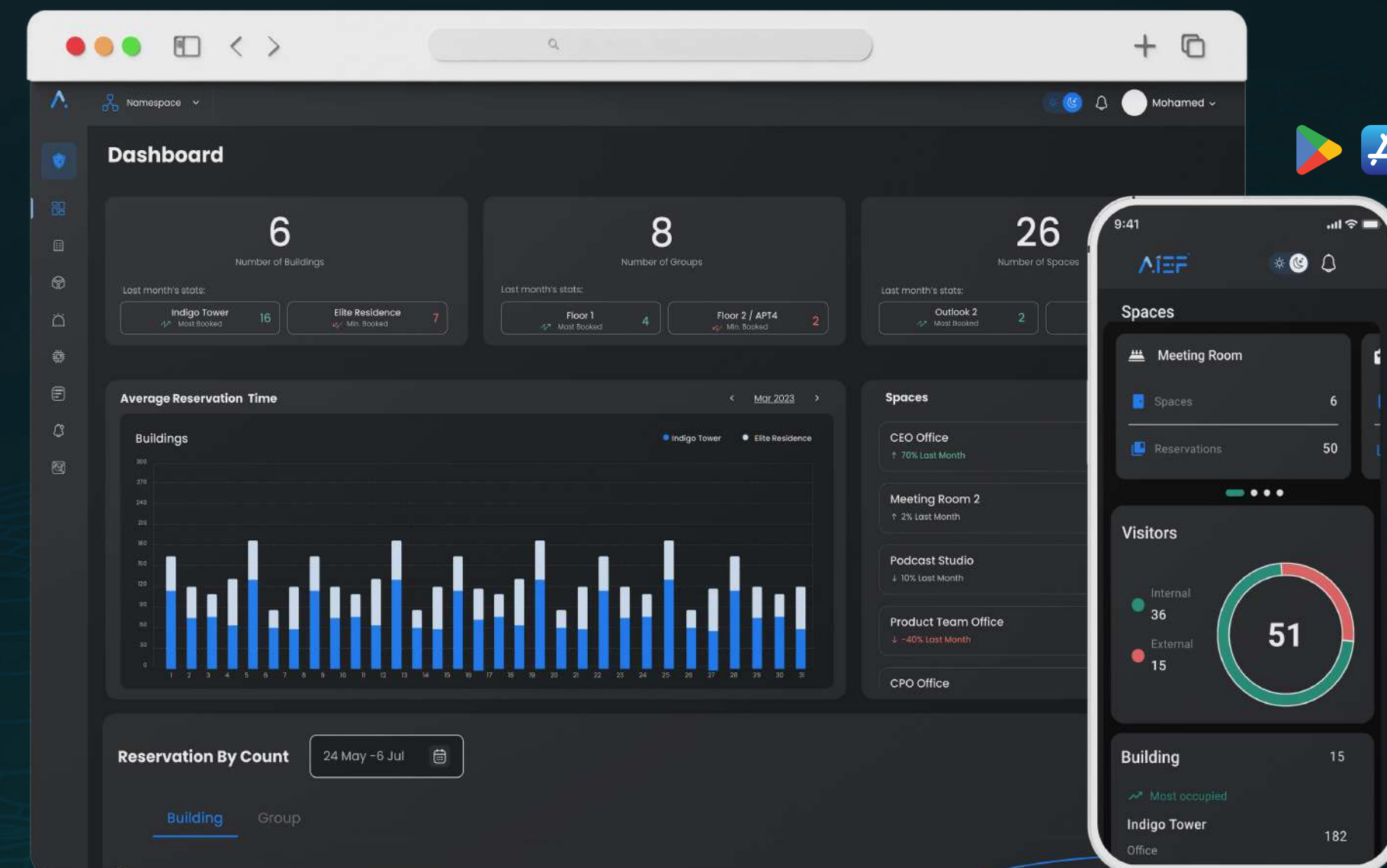
## Key Features:

**Intelligent Occupancy Analytics**

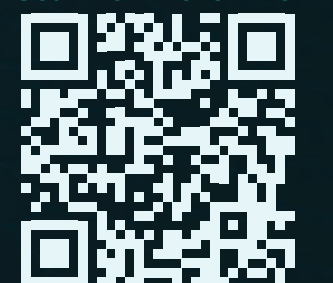
**Get Real-time Occupancy Updates**

**Multi Channel Alerts via Email / SMS / Call / Instant Messaging**

**Generate Customized Reports**



Scan for more info.





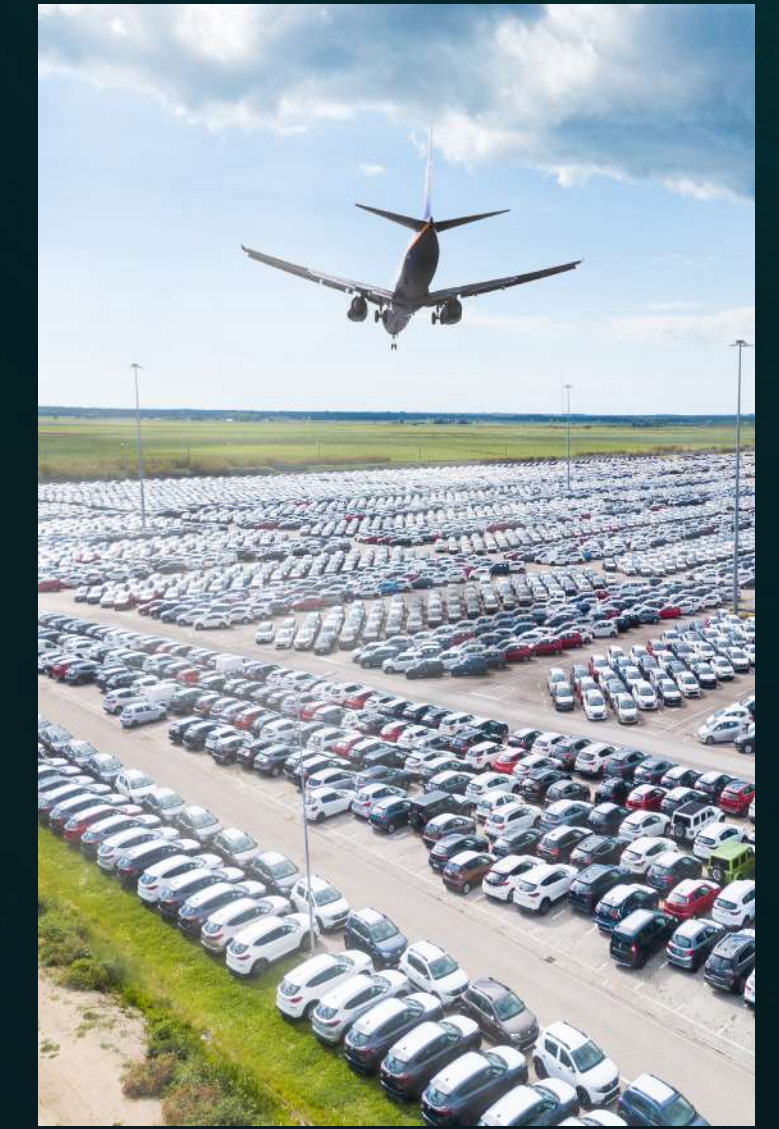
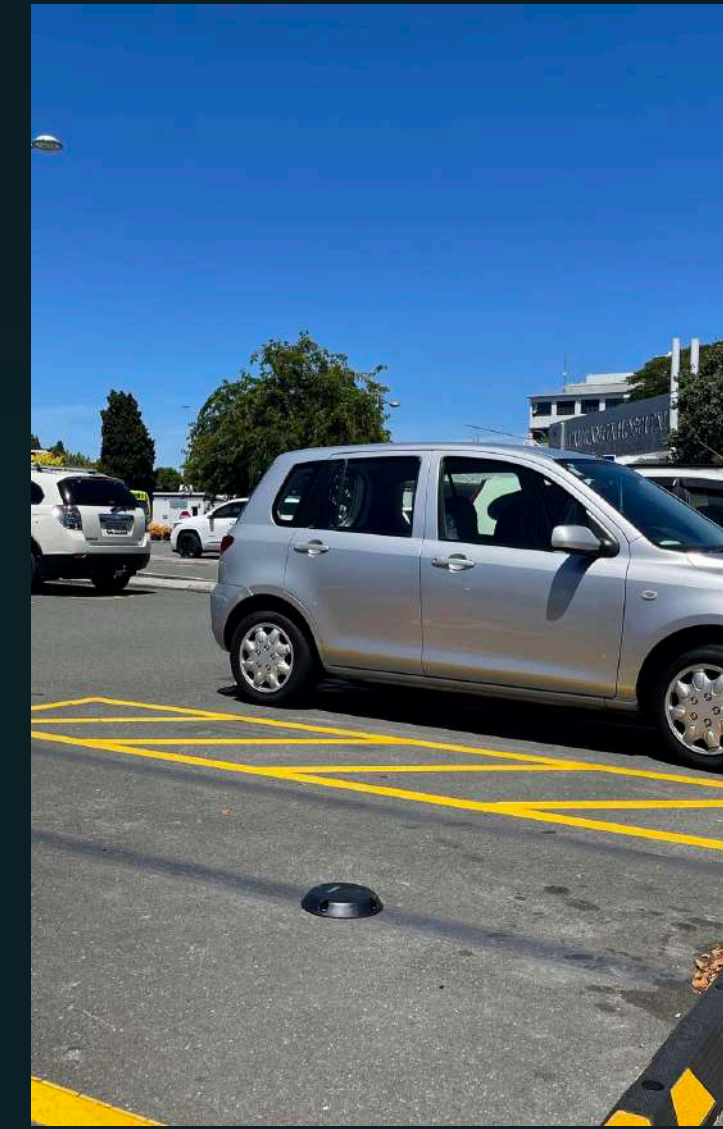
# Smart Parking



With Urban AI's Smart Parking solution, not only can parking spaces be managed and monitored efficiently, but drivers also receive assistance in finding available spots promptly. This system ensures that parking rules are strictly followed and access is given only to authorized vehicles.

## Why is it important?

- Optimized Utilization
- Cost Effectiveness
- Seamless User Experience
- Usage Trend Analysis
- Reduced Illegal Parking
- Reduced Traffic Congestion



### SmartPark Ground

Product Code: SPS-LORX-020 | SPS-SIGX-020

Diameter: 219mm  
 Height: 30mm  
 Operating Temperature: -40°C To 85°C  
 Detection: RADAR & Magnetometer  
 IP Rating: IP68



- On-Ground Installation
- Up to 7 years



## Use-Cases:

- Commercial Buildings
- Hospitality Sectors
- Residential Homes
- Airport Zones

### SmartPark Flush

Product Code: SPF-LORX-020 | SPF-SIGX-020

Diameter: 150mm  
 Height: 33mm  
 Operating Temperature: -40°C To 85°C  
 Detection: RADAR & Magnetometer  
 IP Rating: IP68



- Underground Installation
- Up to 7 years



## Key Features:

- Real-time Parking Slot Updates
- Parking Overstay Alerts
- Parking Slot Authorization
- Detailed Insights on Slot Occupancy

Scan for more info.





# Smart Space Management



Statistically, underutilized spaces and mismanagement of bookings can lead to significant financial losses and operational inefficiencies for businesses and facilities. Urban AI's Smart Space Management taps into the essence of space utility, giving you the tools to monitor, manage, and maximize every inch.

## Why is it important?

- Optimized Utilization
- Cost Effectiveness
- Seamless User Experience
- Usage Trend Analysis
- Prevention of Overbooking
- Tailored Cleaning Schedules

### Meeting Room Sensor

Product Code: SRM-LOR1-003

- Temperature
- Humidity
- PIR Sensor
- Light Detection

Dimension: 42 x 42 x 27mm  
Weight: 28 g  
Operating Temperature: 0°C to 60°C

Humidity Range: 5% - 95%  
Battery: CR2477  
IP Rating: IP30



LoRaWAN

- Sensor life up to 10 years
- Up to 10 years

### Meeting Room Tablet

Product Code: MRT-LOR1-003

Dimension: 157 X 112.4 X 24.5mm  
Battery: 4X AA  
Operating Temperature: 0°C To 40°C  
IP Rating: IP30  
RF Sensitivity: -137dBm



LoRaWAN

- Up to 1 year



## Use-Cases:

- Commercial Buildings
- Hospitality & Event Spaces
- Office Spaces
- Schools & Universities

## Key Features:

- Real-time Space Visualization
- Intelligent Occupancy Alerts
- User Behavior Analytics
- Comprehensive Space Analytics

Scan for more info.





# Technex - Fleet Management



Modern logistics and operational demands require sophisticated fleet management solutions. With Technex, you're not just tracking vehicles, you're optimizing entire fleets. Connect everything from light vehicles to heavy machinery, monitor driver behavior, and manage tasks effortlessly. With real-time GPS tracking, Technex puts you in the driver's seat of every vehicle in your fleet.



Enhanced Safety

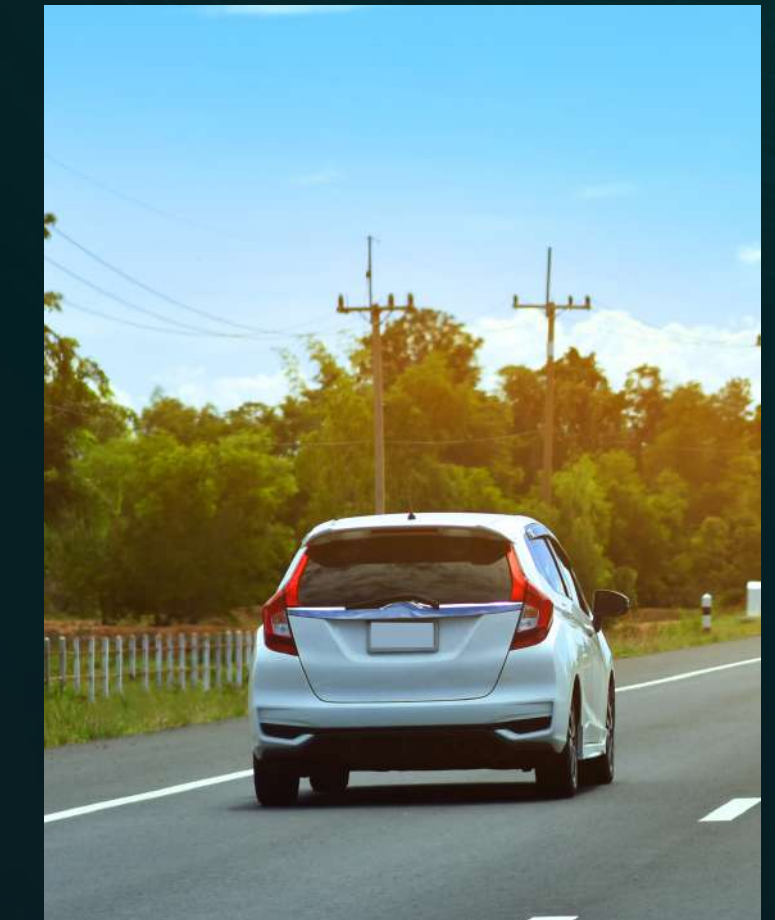


Optimized Utilization



Reduce Costs

**“Command Your Fleet, Control Your Operations.”**



## Use-Cases:



Vehicle Rentals



Enterprise Vehicles



Shipment & Deliveries



School Busses

## Connectivity:



Scan for more info.



## Key Features:



Monitor Fleet in Real-time



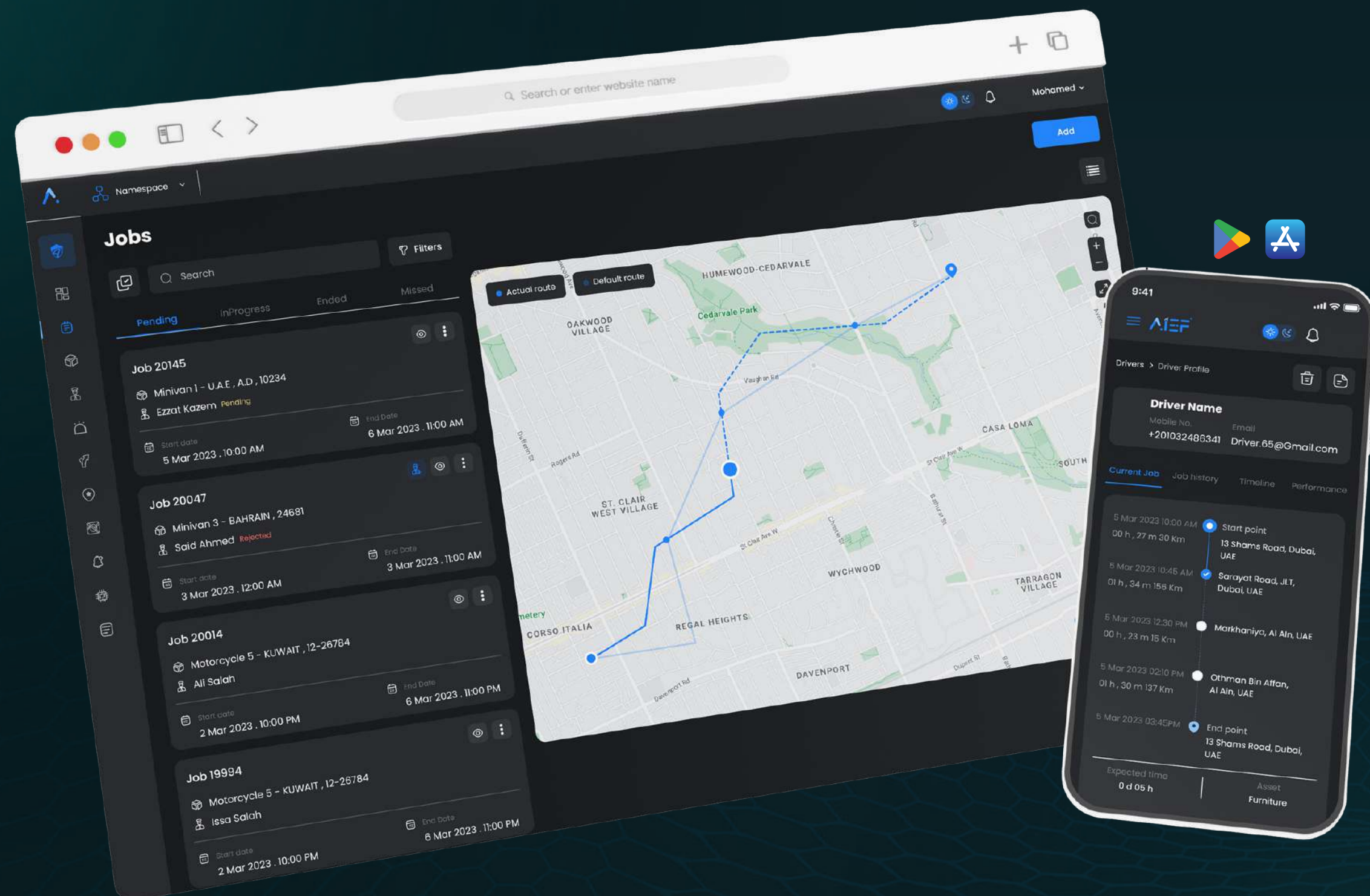
Get Real-time Alerts & Notifications



View Fleet Analytics



Generate Customized Reports





# Technex - Fleet Management




## Fleet Tracker

**Product Code:** FMT-F13-016

Battery: 170 mAh Li-Ion, 3.7 V  
 Dimension: 65 X 56.6 X 20.6 mm  
 Weight: 55g  
 Operating Temperature: -20°C ~ 40°C  
 IP Rating: IP41  
 Sensors: Accelerometer  
**Compatible Devices:** ALL CAN / LV CAN / Eye Sensor

Powered with Backup Battery




4G NB-IoT BLE

## Light Fleet Tracker

**Product Code:** FMT-F92-016

Dimension: 79 X 43 X 12 mm  
 Weight: 54g  
 Operating Temperature: -20°C ~ 40°C  
 IP Rating: IP54  
 Sensors: Accelerometer  
**Compatible Device:** Eye Sensor

Crash Detection Powered with Backup Battery




4G NB-IoT BLE

## Truck Tracker

**Product Code:** TMT-C40-016

Battery: 550 mAh Ni-Mh, 8.4 V  
 Dimension: 104.1 x 76.8 x 31.5 mm  
 Weight: 201g  
 Operating Temperature: -40°C ~ 85°C  
 IP Rating: IP41  
 Movement Detection: Accelerometer  
**Compatible Devices:** ALL CAN / LV CAN / Eye Sensor

Powered with Backup Battery



4G NB-IoT

## Forklift Tracker

**Product Code:** FKT-T10-016

Battery: 1800 mAh Li-Ion battery 3.7 V  
 Dimension: 72.5 x 73 x 27.3 mm  
 Tracking Sensitivity: -165 dBm  
 Operating Temperature: -40°C ~ 85°C  
 IP Rating: IP67  
 Sensors: Accelerometer

Powered with Backup Battery



4G NB-IoT

## ALL CAN - Add-on Accessory


**Product Code:** ACN-BLE-016

Dimension: 41 X 33 X 14.5 mm  
 Weight: 55g  
 Operating Temperature: -40°C ~ 85°C

**FEATURES\*:**

- Total fuel consumption
- Fuel level (Dashboard)
- Vehicle mileage
- Door status
- Engine speed (RPM)
- Oil pressure/level status
- Acceleration position
- Engine temperature
- Vehicle speed
- Accelerator pedal position
- VIN number
- Lights status
- CNG level
- Total CNG consumption

\*Number of parameters depends on vehicle model, year and equipment.



- Engine is working on CNG status
- AdBlue level (Dashboard)
- Webasto
- Simple Tacho
- Seat belt status
- Check engine

## LV CAN - Add-on Accessory


**Product Code:** LVC-BLE-016

Dimension: 41 X 33 X 14.5 mm  
 Weight: 54g  
 Operating Temperature: -40°C ~ 85°C

**FEATURES\*:**

- Total fuel consumption
- Fuel level (Dashboard)
- Vehicle mileage
- Door status
- Engine speed (RPM)
- Engine temperature
- Vehicle speed
- Accelerator pedal position

\*Number of parameters depends on vehicle model, year and equipment.



- CNG level
- Total CNG consumption
- Engine is working on CNG status

## Eye Sensor - Add-on Accessory

**Product Code:** EYE-BLE-016

Temperature Humidity Movement Magnet Detection

Battery: Lithium, Manganese Dioxide (Li/MnO2)  
 Dimension: 56.6 x 38 x 13 mm  
 Weight: 18g  
 Operating Temperature: -20°C ~ 60°C  
 IP Rating: IP67 (Waterproof)



BLE MULTIPURPOSE SENSOR  
 BT SMP1  
 MAC ID: 11-22-33FF-EE  
 EYE SENSOR

BLE



# Cloud Orbit



In an era where urban cleanliness and public health are paramount, Cloud Orbit emerges as a beacon of innovation. It focuses on cleanliness applications, seamlessly integrating IoT to provide real-time solutions. From rodent monitoring to intelligent waste management, Cloud Orbit stands as a symbol of innovation and progress in urban management.



Efficiency and Responsiveness



Environmental Sustainability



Enhanced Public Health

## Solutions Included:



### Smart Rodent Monitoring

• Rodent Monitoring offers real-time notifications and predictive analysis, enabling quick action and proactive measures to minimize health risks and enhance urban hygiene across various sectors.



### Smart Waste Management

• Waste Management solution leverages intelligent scheduling and optimization, contributing to environmental sustainability and efficiency in waste collection across industries and cities of all sizes.

“Intelligent Solutions for Urban Cleanliness.”

## Key Features:



Monitor Rodent Infestation



Optimize Waste Collection



Get Real-time Alerts and Notifications



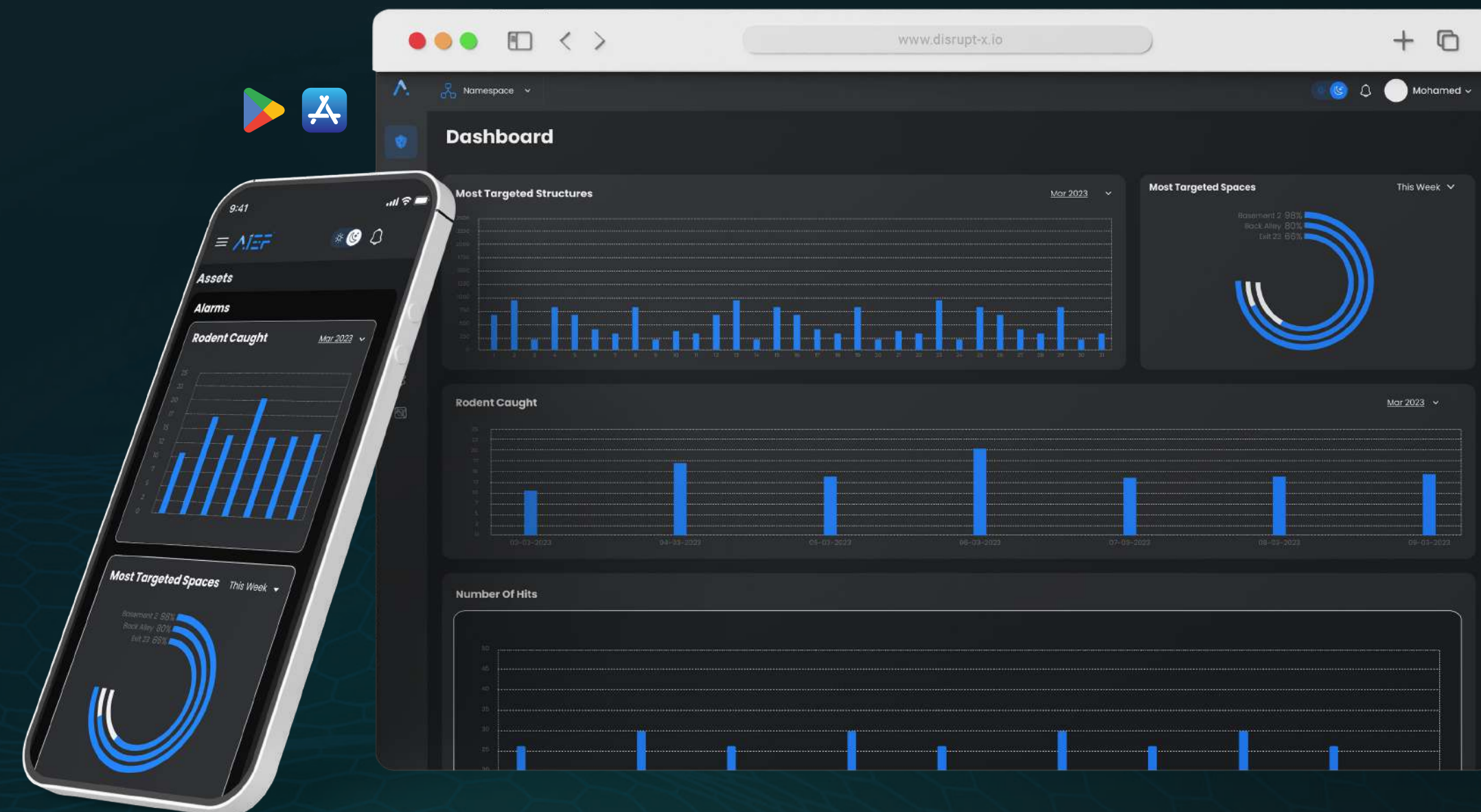
Generate Customized Reports



## Connectivity:



sigfox



Scan for more info.





# Smart Rodent Monitoring



In the modern urban landscape, rodent control is more than a nuisance; it's a vital aspect of public health and safety. Introducing Cloud Orbit's Rodent Monitoring, a cutting-edge solution that combines the power of IoT with real-time analytics. This innovative approach not only enhances urban cleanliness but also represents a significant stride in technology-driven pest control.

## Why is it important?

- Public Health Protection
- Cost Effectiveness
- Real-time Response
- Operational Efficiency
- Remote Monitoring

**“Beyond traditional traps: IoT brings intelligence to rodent control.”**

Scan for more info.



## Key Features:

	Monitor Rodent Infestation		Infestation Analysis
	Get Real-time Notifications		Generate Customized Reports



## Use-Cases:

Residential Zones	Commercial Complexes	Hospitality Sectors	Municipal Services
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## Rodent Monitoring

Product Code: SRM-LOR1-003



Temperature



Humidity



PIR Sensor



Light Detection

Dimension: 42 x 42 x 27mm

Weight: 28 g

Operating Temperature: 0°C to 60°C

Humidity Range: 5% - 95%

Battery: CR2477

IP Rating: IP30



Sensor life up to 10 years



Up to 10 years



LoRaWAN



# Smart Waste Management



In today's rapidly urbanizing world, effective waste management is a cornerstone of sustainability and public well-being. Introducing Cloud Orbit's Waste Management, a modern solution that leverages IoT and real-time analytics. This groundbreaking approach not only streamlines waste collection but also symbolizes a new era in environmentally responsible urban management.

## Why is it important?



Public Health Protection



Cost Effectiveness



Prevention of Waste Overflow



Optimized Servicing Schedule



Remote Monitoring



Optimized Collection Routes



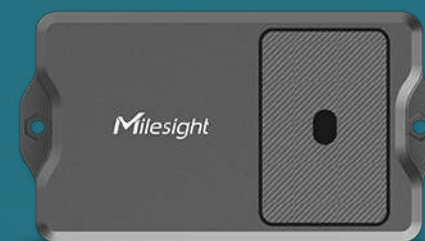
### Waste Monitoring

Dimension: 118 X 65 X 30mm  
 IP Rating: IP67  
 Detection Range: 2 ~ 350 cm  
 Device Position Status: Normal / Tilt  
 Power Supply: 2 x 9000 mAh ER26500 Li-SOCL2 Batteries



Up to 10 years

Product Code: TLD-LORX-030 | TLD-NBT-030



LoRaWAN

NB-IoT

### Waste Monitoring

Dimension: 118 X 65 X 32.5mm  
 IP Rating: IP67  
 Detection Range: 3 ~ 450 cm  
 Device Position Status: Normal / Tilt  
 Power Supply: 2 x 9000 mAh ER26500 Li-SOCL2 Batteries



Up to 10 years

Product Code: MUD-LORX-030 | MUD-NBT-030



LoRaWAN

NB-IoT

## Use-Cases:



Residential Zones



Commercial Complexes



Hospitality Sectors



Municipal Services

## Key Features:



Waste Bin Monitoring



Collection Scheduling



Real-time Updates for Efficient Collection



Generate Customized Reports

Scan for more info.





# Cognitive Neurons



With bustling residential areas, dynamic office spaces, and diverse retail environments, the need for efficient vehicle entry and exit management has never been greater. Cognitive Neuron harnesses the power of Advanced Number Plate Recognition (ANPR) to transform conventional access points into state-of-the-art controlled passages, ensuring both convenience and security.



Enhanced Security



Optimized Utilization



Improved Accountability

## Solutions Included:



### Smart ANPR Access Management

- Tailored for residential buildings, office spaces and other secure facilities, this solution ensures only authorized vehicles can access, providing a secure environment and reducing unauthorized vehicle concerns.



### Smart ANPR (Commercial) - Q4/2024

- Optimal for retail and other commercial establishments that need a combination of access control and monetization. This solution supports both free and paid vehicle entry-exit management, making it an indispensable tool for commercial complexes.

“Elevating Vehicle Access Control with Smart ANPR Technology.”

Scan for more info.



## Features:



### Residential Access Management

Grant access only to residents and authorized visitors, keeping the community safe.



### Commercial Access Management

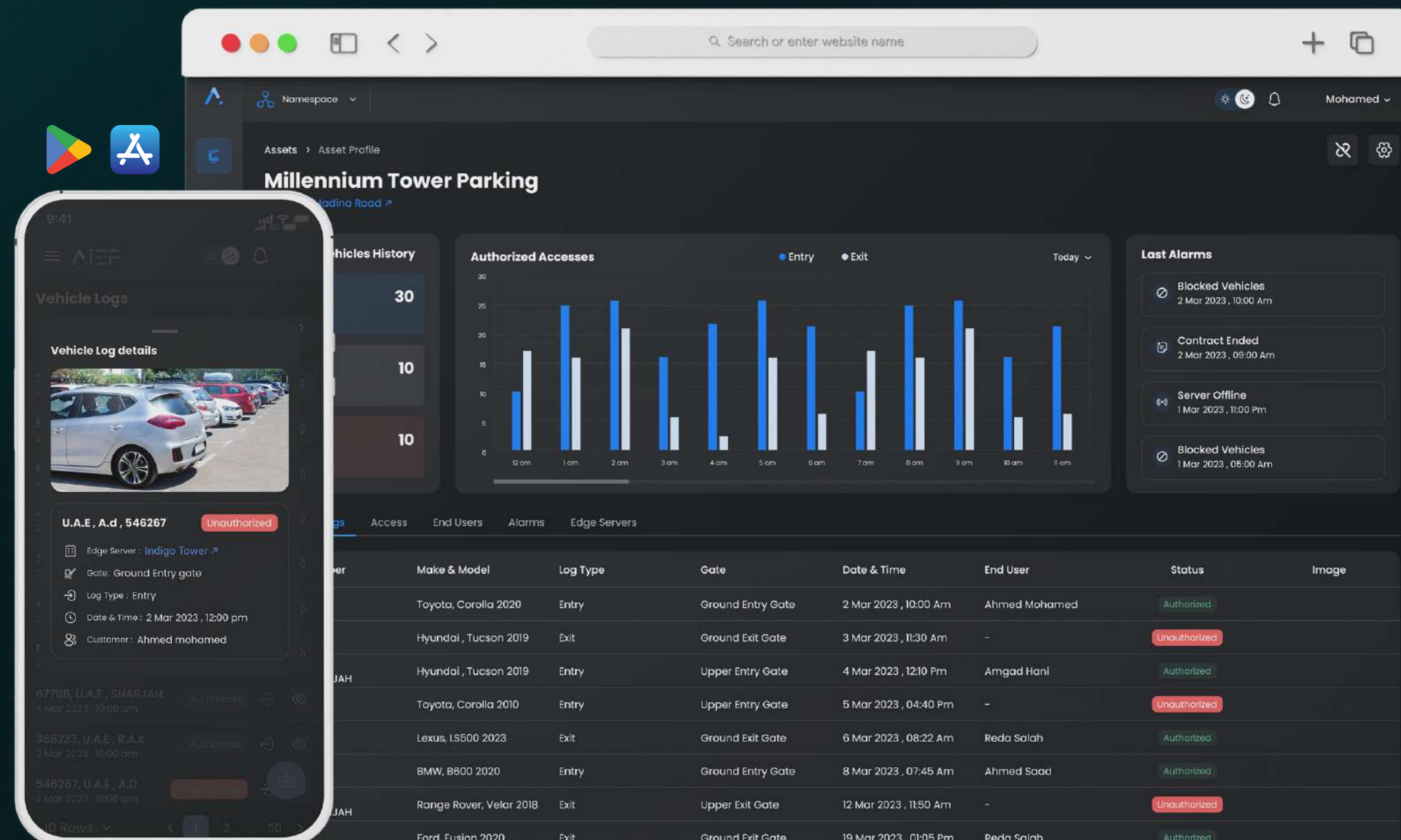
Manage employee parking, guest entries, and ensure a smooth flow of vehicles, especially during rush hours.



### Parking Payment Management

Implement paid parking solutions and monitor vehicle flow efficiently.

Coming Soon





# Smart ANPR Access Management



In modern urban environments, the management of vehicle access to various facilities, gated communities, and parking lots is a complex challenge. Smart ANPR Access Management simplifies this task, providing an efficient and intelligent solution. Through advanced technology, building managers, and residents can control and monitor access with unprecedented ease, even accommodating temporary vehicle requirements.

## Why is it important?

- Prevent Misuse of Parking Access
- No RFID card prints for tenants
- Enhance Tenant Experience
- Instant Alerts on Unauthorized Access
- Enhance Traffic Flow in Parking
- Reduction of Manual Checks

“Simplifying Access with Smart ANPR Technology.”

Scan for more info.



## Key Features:



Manage Access to Multiple Facilities and Parking Lots



Manage and View Connected Servers and Cameras



Duration and Vehicle Limit Specifications



Tenant-Controlled Access

## Use-Cases:



Residential Communities



Commercial Facilities



Gated Communities



Controlled Access Facilities

### Edge AI Server (Max 6 Cameras)

Product Code: EA1-ETN-021

Module: Jetson Orin NX 8GB  
 AI Performance: 70 TOPS  
 Dimension: 130 x120 x 58.5mm  
 Power: 10W - 20W  
 Operating Temperature: -10°C ~ 60°C

Powered by DC Adapter



### Edge AI Server (Max 8 Cameras)

Product Code: EA4-ETN-021

Module: Jetson Orin NX 16GB  
 AI Performance: 100 TOPS  
 Dimension: 130 x120 x 58.5mm  
 Power: 10W - 25W  
 Operating Temperature: -10°C ~ 60°C

Powered by DC Adapter



### Smart 6MP ANPR Camera

Product Code: CAM-6MP-028

Lens Type: Varifocal lens, motorized lens, 2.8 - 12mm  
 Image Sensor: 3,200 X 1,800  
 Dimension: 308.5 x 97.9 x 93mm  
 Weight: 2,046g  
 Operating Temperature: -30°C ~ 60°C  
 IP Rating: IP67

6 Mega Pixel Resolution

Anti-Backlight Imaging

True Wide Dynamic Range

Powered by DC Adapter





# Defcon Patrols



Defcon Patrols is a system made to seamlessly centralize incident and alarm management for all things IoT, while also integrating intelligent security and safety systems. With Defcon Patrols, you can experience a heightened level of control, security, and safety within your business.



Operational Excellence



Improved Decision Making



Enhance Safety and Security

## Solutions Included:



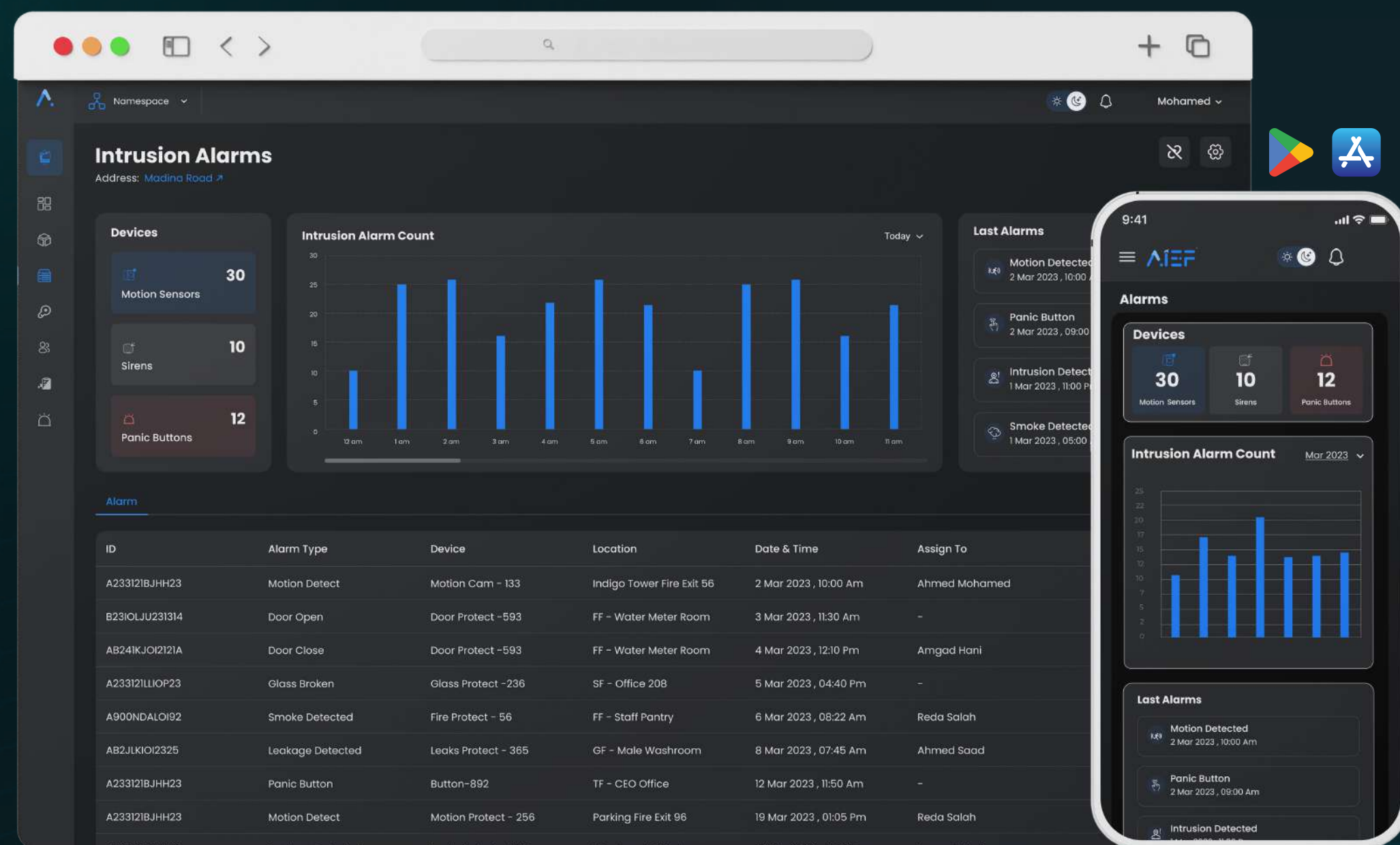
### Intelligent Security

• Our solution integrates with crucial security applications, including intrusion systems and video management systems, to provide quick response and maintain the integrity of your business environment.



### Intelligent Safety

• By integrating with key safety applications, including fire monitoring systems, Defcon Patrols provides immediate alerts in the event of any safety incidents. This swift response ensures risk mitigation and reinforces the safety of your assets and personnel.



“Transforming Business Operations: Security, Safety, and Beyond”

Scan for more info.



## Key Features:



Centralized Incident and Alarm Management



Direct Integration with Safety & Security Systems



Advanced Data Visualization Tools



Tailored Alerts and Prioritization



# Intelligent Security



Our Intelligent Security system extends its features to include smart intrusion devices such as motion detectors, glass break sensors, smart SOS buttons and more. These additions ensure that your premises remain under constant surveillance, and any unauthorized intrusion can be quickly detected and managed.

## Why is it important?

- Enhanced Security
- Rapid Emergency Response
- Remote Monitoring
- Instant Alerts on Intrusion
- Reduction of Manual Checks

“Empowering Your Defense with Smart Intrusion Devices.”

Scan for more info.



## Key Features:

<p>Centralized Security Management</p>	<p>Real-time, Location-Specific Alerts</p>
<p>Proactive Intrusion Detection</p>	<p>Intelligent Incident Prioritization</p>

## Elements of Intelligent Security:

<p><b>Intrusion Alarm Services</b></p> <p>Equip your premises with our Intrusion Alarm Services, designed to detect unauthorized access and other potential security breaches.</p>	<p><b>Smart Panic Buttons</b></p> <p>Aiding swift response during critical moments, our Smart Panic Buttons are your security personnel's reliable allies.</p>
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<p><b>Hub 2 Plus</b></p>	<p>Product Code: CPL-4G-018</p>	
<p>Alarm Delivery Time: 0.15s                  Dimension: 163 x 163 x 36mm                  Weight: 351g                  Operating Temperature: -10°C ~ 40°C                  Power Supply: 110-240V ~AC                  Installation: Indoors</p>		
<p><b>15 hrs.</b> Operation on Backup Battery</p>	<p><b>60 sec.</b> Detect connection loss with a hub</p>	<p><b>35 km<sup>2</sup></b> Maximum radio range coverage with 5 range extenders (ReX)</p>
		<p>Rechargeable Battery</p>

<p><b>Range Extender (ReX)</b></p>	<p>Product Code: REX-JWL-018</p>	
<p>Device Type: Wireless                  Dimension: 163 x 163 x 36mm                  Weight: 330g                  Operating Temperature: -10°C ~ 40°C                  Power Supply: 110-240V AC</p>		
<p><b>35 hrs.</b> Operation on Backup Battery</p>	<p><b>0.3 sec.</b> Alarm Signal Delivery Time</p>	<p><b>1,800m</b> Maximum radio range coverage per ReX</p>
		<p>Rechargeable Battery</p>
<p>*ReX can only be directly connected to the Hub. ReX cannot be connected to another ReX.</p>		



# Intelligent Security



## Use-Cases:



Government Buildings



Residential Zones



Hospital & Healthcare



Industrial Facilities



Financial Institution



Commercial Complexes

Scan for more info.



**“Smart security isn’t a choice; it’s a necessity for modern challenges.”**

### Motion Protect

Product Code: MPR-JWL-018

Motion Detection Distance: 12 Meters  
 Dimension: 110 x 65 x 50 mm  
 Weight: 86g  
 Operating Temperature: -10°C ~ 40°C  
 Battery: CR123A, 3 V



Jeweller Radio Protocol



### Motion Protect Plus

Product Code: MPP-JWL-018

Motion Detection Distance: 12 Meters  
 Dimension: 110 x 65 x 50 mm  
 Weight: 96g  
 Operating Temperature: -10°C ~ 40°C  
 Battery: CR123A, 3 V



Jeweller Radio Protocol



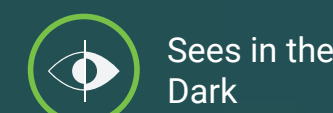
### Motion Cam

Product Code: MCM-JWL-018

Motion Detection Distance: 12 Meters  
 Dimension: 135 x 70 x 60 mm  
 Weight: 167g  
 Operating Temperature: -10°C ~ 40°C  
 Battery: 2 x CR123A



Jeweller Radio Protocol



### Motion Protect Outdoor

Product Code: MPO-JWL-018

Motion Detection Distance: 3 -15 Meters  
 Dimension: 183 x 70 x 65 mm  
 Weight: 322g  
 Operating Temperature: -25°C ~ 60°C  
 IP Rating: IP55



Jeweller Radio Protocol





## Combi Protect

Product Code: CPR-JWL-018

Motion Detection Distance: 12 Meters

Dimension: 110 x 65 x 50 mm

Weight: 92g

Operating Temperature: -10°C ~ 40°C

Battery: CR123A, 3 V



## Dual Curtain Outdoor

Product Code: DCO-JWL-018

Motion Detection Distance: 4 -15 Meters for each side

Dimension: 174 x 123 x 88 mm

Weight: 615g

Operating Temperature: -25°C ~ 60°C

IP Rating: IP54



## Motion Cam Outdoor

Product Code: MCO-JWL-018

Motion Detection Distance: 3 -15 Meters

Dimension: 206 x 108 x 93 mm

Weight: 470g

Operating Temperature: -25°C ~ 60°C

IP Rating: IP55



## Motion Protect Curtain

Product Code: MCP-JWL-018

Motion Detection Distance: 6 - 15 Meters

Dimension: 134 x 44 x 34 mm

Weight: 118g

Operating Temperature: -10°C ~ 40°C

IP Rating: IP54



## Glass Protect

Product Code: GLP-JWL-018

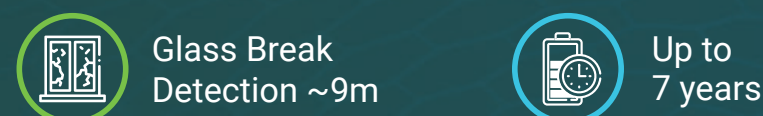
Battery: CR123A battery

Dimension: 20 mm (diameter) 90 mm (height)

Weight: 30g

Operating Temperature: -10°C ~ 40°C

Operating Humidity: up to 75%



## Door Protect

Product Code: DPR-JWL-018

Battery: CR123A battery

Dimension: 20 mm (diameter) 90 mm (height)

Weight: 29g

Operating Temperature: -10°C ~ 40°C

Operating Humidity: up to 75%





## Door Protect Plus

Product Code: DPP-JWL-018

Battery: CR123A battery  
Dimension: 20mm (diameter) 90mm (height)  
Weight: 29g  
Operating Temperature: -10°C ~ 40°C  
Operating Humidity: up to 75%



- 2,000,000 Openings
- Tilt Detection
- Up to 5 years

Jeweller Radio Protocol

## Button

Product Code: BTN-JWL-018

Dimension: 47 x 35 x 13mm  
Weight: 16g  
Operating Temperature: -10°C ~ 40°C  
Protection Class: IP55  
Battery: CR2032 battery, 3 V



- Panic Button
- Up to 5 years

Jeweller Radio Protocol

## Home Siren

Product Code: HMS-JWL-018

Dimension: 75 x 76 x 27mm  
Weight: 97g  
Operating Temperature: -10°C ~ 40°C  
Sound Volume Level: Adjustable, 80-98 dB at a distance of 1m  
Alarm Length: Adjustable, 3 seconds - 3 minutes



- Audible alarm with LED
- Armed / disarmed status
- Up to 5 years

Jeweller Radio Protocol

## Double Button

Product Code: DBN-JWL-018

Dimension: 47 x 35 x 16mm  
Weight: 17g  
Operating Temperature: -10°C ~ 40°C  
Protection Class: IP55  
Battery: CR2032 battery, 3 V



- Panic Button
- Up to 5 years

Jeweller Radio Protocol

## Street Siren

Product Code: STS-JWL-018

Dimension: 200 x 200 x 51mm  
Weight: 528g  
Operating Temperature: -25°C ~ 50°C  
Sound Volume Level: Adjustable, 85-113 dB at a distance of 1m  
Alarm Length: Adjustable, 3 seconds - 3 minutes



- Audible alarm with LED
- Armed / disarmed status
- Up to 5 years

Jeweller Radio Protocol

## Keypad

Product Code: KYP-JWL-018

Battery: 4 x AAA battery  
Dimension: 150 x 103 x 14mm  
Weight: 197g  
Operating Temperature: -10°C ~ 40°C  
Operating Humidity: up to 75%



- Armed / disarmed status
- Up to 2 years

Jeweller Radio Protocol



# Intelligent Safety



Intelligent Safety's fire monitoring capability represents a significant step forward in safety management. With real-time fire and leak detection and automatic alerts, you can take immediate action to mitigate risks and protect people and property.

## Why is it important?

- Enhanced Safety
- Rapid Emergency Response
- Remote Monitoring
- Immediate Detection
- Cost Savings
- Prevention of Accidents

**“The Essence of Intelligent Safety:  
Always Alert, Always Prepared”**

Scan for more info.



## Key Features:



Intelligent Monitoring for Proactive Protection



Real-time Alerts for Immediate Response



Advanced Analytics to Predict and Prevent Safety Hazards



Integration with Third-party Systems

### Fire Protect

Product Code: FPR-JWL-018

Dimension: 132 x 132 x 31mm  
 Weight: 220g  
 Operating Temperature: 0°C ~ 65°C  
 Operating Humidity: up to 80%  
 Volume of Built-in Siren: 85 dB



- Detects smoke & temperature spikes
- Can operate without hub
- Up to 4 years



### Fire Protect Plus

Product Code: FPP-JWL-018

Dimension: 132 x 132 x 31mm  
 Weight: 220g  
 Operating Temperature: 0°C ~ 65°C  
 Operating Humidity: up to 80%  
 Volume of Built-in Siren: 85 dB



- Detects smoke, CO levels & temperature spikes
- Can operate without hub
- Up to 4 years



### Leaks Protect

Product Code: LPR-JWL-018

Battery: 2 x AAA battery  
 Dimension: 56 x 56 x 14mm  
 Weight: 40g  
 Operating Temperature: 0°C ~ 50°C  
 IP Rating: IP65



- Detects leak on all sides
- Up to 5 years

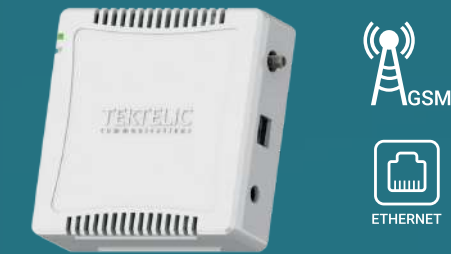




## Indoor Gateway - 8CH

Product Code: MIC-LOR1-003

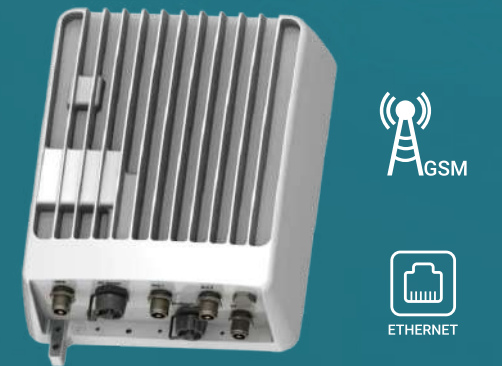
Dimension: 115 x 115 x 40 mm  
 Weight: 350g  
 Operating Temperature: 0°C ~ 40°C  
 Operating Humidity: 5% to 95%  
 IP Rating: IP30



## Mega Outdoor Gateway - 32CH + 1 Antenna

Product Code: MES-LOR1-003

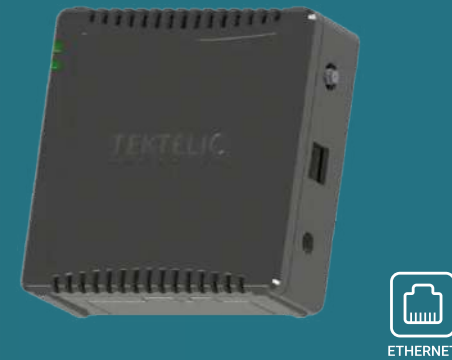
Dimension: 222.2 x 267.6 x 101 mm  
 Weight: 5kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: 10% to 100% Condensing  
 IP Rating: IP67



## Indoor Gateway Lite - 8CH

Product Code: MIE-LOR1-003

Dimension: 96 x 96 x 25 mm  
 Operating Temperature: 0°C ~ 40°C  
 Operating Humidity: 5% to 95%  
 Tx Power: Adjustable to 27 dBm  
 Rx Sensitivity: -139.5 dBm



## Mega Outdoor Gateway - 32CH + 2 Antennas

Product Code: MEM-LOR1-003

Dimension: 222.2 x 267.6 x 101 mm  
 Weight: 5kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: 10% to 100% Condensing  
 IP Rating: IP67



## Enterprise Outdoor Gateway - 8CH

Product Code: ENC-LOR1-003

Dimension: 146 x 179 x 79.5 mm  
 Weight: 1.2kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: 10% to 100%  
 IP Rating: IP67

\*Option available with Ethernet (ENE-LOR1-003)



## Mega Outdoor Gateway - 32CH + 2 Antennas

Product Code: MEG-LOR1-003

Dimension: 222.2 x 267.6 x 101 mm  
 Weight: 5kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: 10% to 100% Condensing  
 IP Rating: IP67  
 Volume: 5.5 L

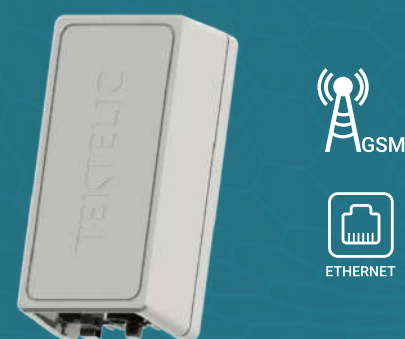


## Macro Outdoor Gateway - 16CH

Product Code: MAC-LOR1-003

Dimension: 144 x 282 x 92 mm  
 Weight: 2.6kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: 10% to 100%  
 IP Rating: IP67  
 Volume: 3.7 L

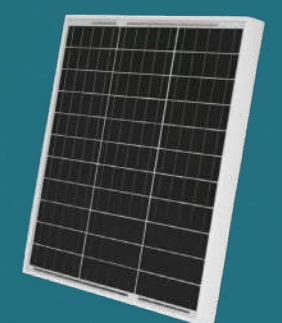
\*Option available with Geolocation (MAG-LOR1-003)



## Photon Outdoor Gateway

Product Code: PHT-LOR1-003

Dimension: 100W - 970 x 540 x 90 mm | 50W - 550 x 540 x 90 mm (Excluding Mount)  
 Weight: 100W - 19kg | 50W - 16kg  
 Operating Temperature: -30°C ~ 65°C  
 Operating Humidity: 10% to 100% Condensing  
 IP Rating: IP67





# Base / Gateways



## Mini Gateway - 8CH

Product Code: MIN-LOR1-030

Dimension: Ø115 mm x 21 mm  
 Power Consumption: Max 3.3 W  
 Operating Temperature: -20°C ~ 50°C  
 Operating Humidity: 0% to 95% Non-condensing  
 IP Rating: IP30



## Indoor Gateway - 8CH

Product Code: WIE-LOR1-038

Dimension: 160 x 90 x 35 mm  
 Weight: 163g  
 Operating Temperature: -20°C ~ 55°C  
 Operating Humidity: 5% to 95%  
 IP Rating: IP30



## Industrial Gateway - 8CH

Product Code: MIG-LOR1-030

Dimension: 110 x 75 x 24 mm  
 Power Consumption: Typical 1.8 W, Max 6.9 W  
 Operating Temperature: -20°C ~ 60°C  
 Operating Humidity: 0% to 95% Non-condensing  
 IP Rating: IP30



## Outdoor Gateway - 8CH

Product Code: WSC-LOR1-038

Dimension: 265 x 165 x 100 mm  
 Weight: 1.4kg  
 Operating Temperature: -40°C ~ 60°C  
 Operating Humidity: ~95%  
 IP Rating: IP67



## Semi Industrial Gateway - 8CH

Product Code: SIG-LOR1-030

Dimension: 180 x 110 x 56.5 mm  
 Power Consumption: Typical 2.9 W, Max 4.2 W  
 Operating Temperature: -40°C ~ 70°C  
 Operating Humidity: 0% to 95% Non-condensing  
 IP Rating: IP65



## Mega Outdoor Gateway - 32CH + 2 Antennas

Product Code: OLG-LOR1-021

Dimension: 256 x 160 x 81 mm  
 Weight: 777g  
 Operating Temperature: -40°C ~ 70°C  
 Operating Humidity: 0% to 100% Non-condensing  
 IP Rating: IP66



## Indoor Gateway - 8CH

Product Code: WIC-LOR1-038

Dimension: 160 x 90 x 35 mm  
 Weight: 163g  
 Operating Temperature: -20°C ~ 55°C  
 Operating Humidity: 5% to 95%  
 IP Rating: IP30  
 Rx Sensitivity: -140 dBm



## Sigfox Base Micro

Product Code: MIC-SIG1-035


Dimension: 186 x 159 x 108 mm  
 Weight: 450g  
 Operating Temperature: -20°C ~ 55°C  
 Robustness: MTBF 92,000 hours  
 IP Rating: IP65  
 Power Consumption: Typical 2.3 W, Max 7.5 W









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