OMNIWOT

Innovate, Integrate & Empower

Empowering Industries with Wireless IoT Automation

omniwot.com

- Wireless IOT Sensors
- Smart Gateways
- Open Cloud Platform

About Us

At OmniWOT, we provide a complete range of wireless IoT solutions designed to serve various industries. Our products include LoRaWAN **Wireless IOT Sensors, Smart Gateways, and a hardware-agnostic IoT Open Cloud Platform** that ensures seamless device management and connectivity.

Our technology is designed to be both scalable and reliable, making it easy for businesses to connect and manage their IoT devices efficiently. With user-friendly solutions, we empower organizations to optimize their operations through smart, adaptable IoT systems and tailored to support seamless device management and data integration.

OMNIWOT

- Smart Buildings
- Smart Cities
- Energy Management
- Intelligent Parking
- Smart Agriculture
- Smart Gas & Water
- Waste Management

With a strong network of partners, OmniWOT delivers customized solutions to meet specific business challenges. OmniWOT works closely with its partners and are committed to making a positive impact across multiple sectors.

Wireless IoT Sensors and Gateways

Open Cloud Platform

IoT Application Dashboard/ Interface

Wireless IOT Sensors: Backbone of IOT

Our Wireless LPWAN IoT Sensors deliver real-time data over long distances with minimal power usage, making them ideal for wide-area monitoring. Designed for durability and scalability, they integrate seamlessly into existing IoT ecosystems, ensuring reliable and secure communication. Perfect for industries ranging from agriculture to smart cities.

Wireless IOT Sensors

We offer a diverse portfolio of over 100+ sensors and provide tailored sensor solutions on-demand. Our range includes Environmental, Industrial, and Automation Sensors, ensuring you find the perfect fit for your needs. Highlighting some of them...

- Temperature & Humidity Sensors
- Smart Thermostats
- Air Quality Sensors
- Water Level Sensors
- Soil Moisture & NPK Sensors
- Light Sensors
- Tracking Sensors
- Energy Consumption Sensors
- Gas Leak Sensors
- Pressure Sensors
- Door/Window Contact Sensors
- Flood Sensors & MORE>>>

At OmniWOT, we offer a wide range of high-quality sensors to meet your IoT needs. Our sensors are designed for reliability, accuracy, and ease of use. Whether you're building a smart home, a smart city, or an industrial IoT solution, OmniWOT has the sensors you need.

GATEWAY: Empowering Connectivity, Expanding Horizons

A gateway acts as the vital link between your IoT devices and the cloud, facilitating smooth communication and data exchange. It gathers data from sensors, processes it locally, and transmits it to the cloud for in-depth analysis and visualization.

1. **Coverage:** Provides extensive coverage, typically ranging from 2 to 5 kilometers in urban areas and up to 15 kilometers in rural or open areas. Ideal for connecting many IoT devices over wide geographical areas.

2. **Scalability:** Supports a high number of devices per gateway, making it suitable for large-scale IoT deployments & scalable by adding more gateways to the network as needed.

3. **Reliability:** Designed for high reliability with redundancy options to ensure continuous operation.

4. **Durability:** Built to withstand harsh environmental conditions, including extreme temperatures, moisture, and dust. Industrial-grade gateways offer long-lasting performance in demanding scenarios.

5. **Security:** Implements end-to-end encryption, ensuring that data transmitted over the network is secure.

6. **Ease of Deployment:** Simple and quick to deploy, with plug-and-play capabilities for rapid installation. Often requires minimal setup, with remote management options available.

7. **Interoperability:** Compatible with a wide range of LoRaWAN devices and network servers, supporting multi-vendor environments. Adheres to open standards, facilitating integration with existing IoT ecosystems.

8. **Power Efficiency:** Optimized for low power consumption, making it suitable for remote or off-grid deployments where power resources are limited.

9. **Support & Maintenance:** Typically supported by robust maintenance services, including remote monitoring and regular updates.

Facility Management with OmniWOT

OmniWOT's Facility Management Solution offers seamless, long-range wireless connectivity for monitoring and controlling building systems. Our technology ensures real-time data collection from various sensors, enabling efficient energy management, predictive maintenance, and enhanced security. With OmniWOT, facilities operate smarter, more sustainably, and with reduced operational costs.

Types of sensors driving the Facility Management Solution

1) Smart Thermostat
2) Temp & Humidity Sensor
3) Air Quality Sensors
4) Energy Meters
5) Lighting Sensors
6) Water Meter
7) Leak Detection Sensor

Energy Management Solution

OmniWOT's Energy Management Solution leverages LoRaWAN technology to provide real-time monitoring and control of energy consumption. Our solution offers scalable and reliable data transmission, enabling efficient energy management across diverse environments. Enhance your operational efficiency and reduce costs with our innovative, IoT-powered energy management system.

Types of sensors driving the Energy Management Solution

1) Wireless Energy Meters
2) Power Quality Sensors
3) Smart Light Sensors
4) Occupancy Sensors
5) Wireless Current Transformers

Health Care Solution

OmniWOT's Health Care Solution leverages LoRaWAN technology to deliver real-time patient monitoring with enhanced accuracy and reliability. Our solution ensures seamless data transmission across vast distances, providing healthcare professionals with critical insights for timely interventions. Enhance patient care and safety with our Smart Hospital and Elderly Care Monitoring solutions.

Types of sensors driving the Health Care Solution

1) Indoor Air Quality Sensor
2) Fall Detection Sensor
3) Environmental Sensors
4) Activity & Motion Sensors
5) Wearable Vital Signs Monitors
6) Patient Tracking Watch

Smart Agriculture Solution

OmniWOT's Smart Agriculture Solution harnesses LoRaWAN technology to provide precise, real-time monitoring of soil conditions, crop health, and weather conditions, environmental factors. Our Smart Agriculture Solution combines advanced Irrigation and Fertigation techniques with real-time LoRaWAN sensor data to deliver precise water and nutrient applications, enhancing crop yields and resource efficiency.

Types of sensors driving the Smart Agriculture Solution

1) Soil Moisture Sensor
2) Water Quality Sensors
3) Weather Station Sensor
4) Light Sensor Sensors
5) Nutrient / NPK Transformers
6) Soil PH Sensor

Cold Storage Solution

OmniWOT's Cold Storage Solution leverages LoRaWAN to ensure precise temperature monitoring and control in real-time. Our system provides reliable alerts for temperature deviations, reducing spoilage and enhancing inventory management. With seamless integration and low-power sensors, maintain optimal conditions effortlessly and cost-effectively.

Types of sensors driving the Cold Storage Solution

1) Temperatuer
2) Humidity Sensors
3) Door Contact Sensor
4) CO2 Sensors
5) Power Monitoring Sensor
6) Vibration Sensor

Mining Solution

OmniWOT's Mining Solution harnesses LoRaWAN sensors to enhance safety and operational efficiency. Our system provides real-time tracking of equipment and personnel, monitors vital signs, and detects earth hazards with precision. Integrated alarms ensure immediate response to potential risks, safeguarding both workers and operations.

Types of sensors driving the Mining Solution

1) Wearable Sensor
2) Asset Tracking Sensor
3) Vibration Sensor
4) Water Turbidity Sensor
5) Structural Health Sensors
6) Temp & Humidity Sensor

Food & Restaurant Solution

OmniWOT's Food & Restaurant Solution leverages LoRaWAN sensors to ensure optimal food quality by continuously monitoring stock levels and maintaining precise temperature controls. Prevent spoilage with real-time alerts and data-driven insights, ensuring freshness and reducing waste. Optimize your inventory and improve operational efficiency effortlessly.

Types of sensors driving the Food & Restaurant Solution

1) Temp & Humidity Sensor
2) Power Monitoring Sensor
3) Vibration Sensor
4) Water Leak Detection
5) Equipment Monitoring Sensor

Smart Parking Solution

OmniWOT's Smart Parking Solution uses LoRaWAN sensors to streamline parking management with real-time space availability data. Optimize space utilization and reduce congestion by guiding drivers to open spots efficiently. Enhance your parking experience with automated monitoring and dynamic updates, ensuring convenience and efficiency.

Types of sensors driving the Smart Parking Solution

1) Parking Sensor
2) Smart Gateway
3) Smart Parking Application

Waste Management Solution

OmniWOT's Waste Management Solution utilizes LoRaWAN sensors to streamline waste collection with real-time bin monitoring. Receive instant alerts when bins are full, optimize collection routes, and track assets for efficient management. Enhance operational efficiency and reduce costs with data-driven insights.

Types of sensors driving the Waste Management Solution

1) Level Sensor
2) GPS Tracking Sensor
3) Bin Open/Close Sensor
4) Temperature Detection
5) Smart Gateway

People Counting Solution

OmniWOT's People Counting Solution utilizes LoRaWAN sensors to accurately track and manage foot traffic in real-time. Gain insights into occupancy patterns and optimize space utilization with reliable, data-driven information. Enhance operational efficiency and ensure a safer environment with precise and scalable people counting capabilities.

Types of sensors driving the People Counting Solution

1) People Counting Sensor
2) Smart Gateway
3) Smart Counting Application

Integrated Building Management System

Lighting

HVAC

Open Cloud Platform

Energy

Automation

Fire Alert

The most advanced Intelligent Building Management Systems (BMS) integrate technologies that directly drive down energy consumption in commercial, industrial, institutional, and residential settings.

The greenfield (or) brownfield assets equipped with multiple systems from various manufacturers and models. Like HVAC, Lighting Control, Access Control, and Energy Meters, etc.. in buildings.
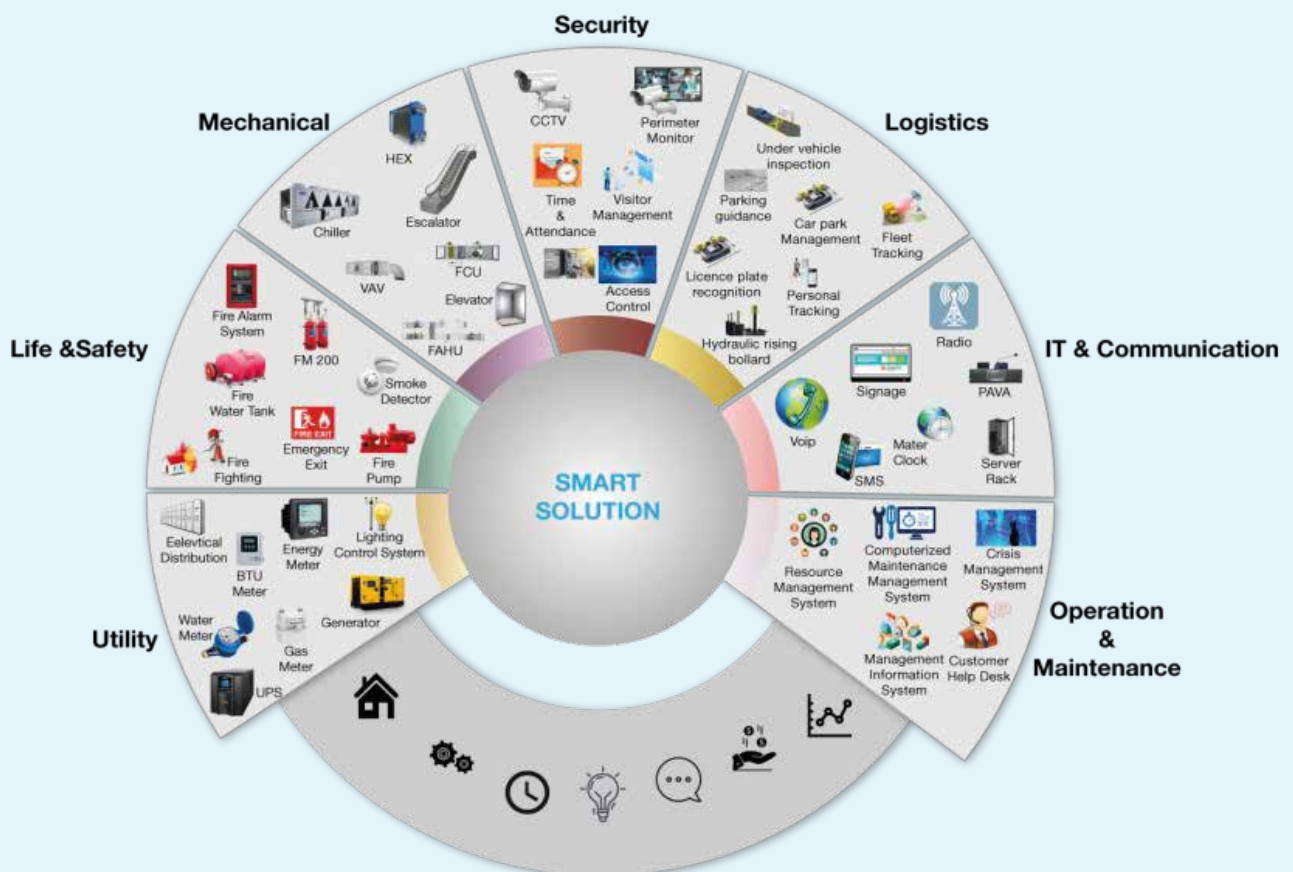
These systems leverage IoT-enabled sensors, automation, and analytics to dynamically manage energy flows—optimizing HVAC, Lighting, and other equipment operation based on real-time conditions.

Such Intelligent BMS solutions are equipped with predictive maintenance and load-shedding capabilities, allowing for precise control over energy-intensive processes. This not only enhances energy efficiency but also reduces operational costs and environmental impact, aligning with global sustainability goals across multiple sectors.

We are a leading system integrator, specializing in seamless integration from devices to the digital realm, independent of system, vendor, or manufacturer. Our expertise enables us to implement clients' visions using advanced resources and technology to enhance operational efficiency and profitability.

Our tailored software, hardware, and controllers are designed to meet the evolving demands of IoT, system integration, asset management, facility management, and the energy sector.

M2M (Machine-to-Machine) technology is a key enabler of the Internet of Things (IoT), linking machines, devices, and objects to the internet and transforming them into intelligent assets capable of seamless communication with their environment. By combining the latest in M2M technology with our advanced IoT solutions, we offer innovative possibilities for customers globally. Our expertise spans IoT, System Integration, Consultancy, Energy Analysis, and Cloud-connected smart devices. With a skilled team in building automation, electrical, IT, and electromechanical engineering, we deliver high-quality products and services worldwide through trusted partnerships.
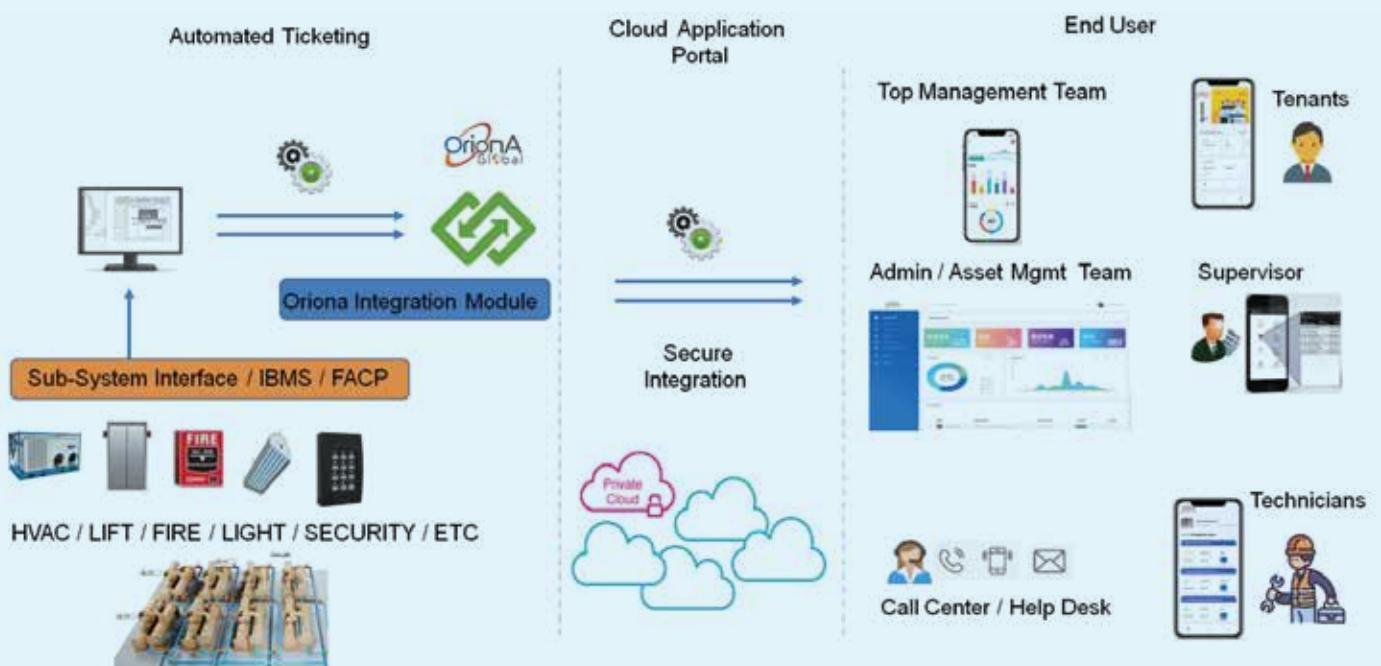
Command Control Centre Automation

The command control center allows cities to create a comprehensive digital platform that consolidates data from multiple connected systems, including access control, city surveillance, vehicles, buildings, and roadside sensors.

Seeking an automated solution for centralized control over your operations? Our Command Control Centre Automation solutions are designed to provide seamless integration and data flow, facilitating better decision-making and communication.

This system connects field sensors and communication channels, ensuring optimal outcomes across various applications. Widely adopted in public projects, asset management, facility management, universities, smart cities, security, and surveillance, the Command Control Centre effectively manages complex, multi-system environments with ease and efficiency, tailored for modern, interconnected infrastructures.

Smart Asset Management CAFM I CMMS I EAM I IWMS

Message from the CEO

OmniWOT offers a comprehensive Wireless IoT ecosystem, covering everything from devices to the cloud. As a trusted distributor of LoRaWAN IoT Sensors, Smart Gateways, and Cloud IoT Platforms, we provide end-to-end solutions across various industries.

With our expertise in LPWAN technology, we deliver innovative wireless products that help businesses streamline operations and scale efficiently.

As a leading IoT solution aggregator, we support system integrators and dealers with an ever-expanding portfolio of devices and applications. At OmniWOT, our mission is to offer cutting-edge IoT solutions tailored to meet the needs of large businesses and commercial-grade applications.

I am immensely proud of the talented team at OmniWOT, whose expertise and dedication have been key to our success. Together, we are committed to maintaining our legacy of excellence, equipping our clients with the tools they need to thrive in the digital age.

Our goal is to empower organizations with efficient, reliable, and future-ready IoT technology.

Thank you for choosing OmniWOT as your IoT innovation partner.

Sincerely,

Sathish Arya
CEO, OmniWOT

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