

Universal Network Management AIoT Application Server with LCD & 6 10/100/1000T LAN Ports



AI-Driven Universal Network Management AIoT Application Server

PLANET NMS-AIoT is an AI-powered AIoT application server that centrally manages and analyzes data from over 3,000 IoT sensors. By integrating LoRaWAN, Wi-Fi HaLow, and AI-driven energy analytics, the platform delivers real-time monitoring, intelligent anomaly detection, and predictive energy insights—helping enterprises optimize energy usage and achieve sustainability goals.

PLANET NMS solution features intuitive dashboard, and map viewing to make network management efficient and effective.



- A unified platform integrating LoRa, Wi-Fi HaLow, Modbus and more
- ESG energy management reporting with real-time sensor data analysis and carbon footprint reduction
- Supports integration with versatile IoT devices.
- Intuitive smart dashboard
- Real-time environmental monitoring and analysis
- Precise device location mapping
- 24/7 real-time event notifications
- Early error detection and anomaly resolution
- Map-based sensor location management
- Enhanced security with two factor authentication
- Embedded hardware controller for easy setup
- Easy installation for non-technical personnel
- Support for future software upgrades
- Support for private and PLANET cloud platforms
- AI-based energy usage prediction and trend analysis
- Intelligent anomaly detection for energy optimization

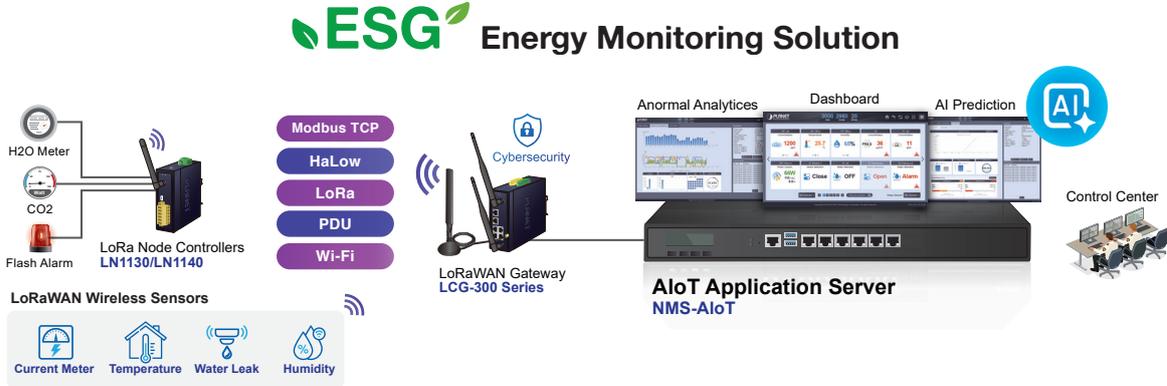
The exclusive product features for PLANET NMS solution include:

- ESG energy management reporting with real-time sensor data analysis and carbon footprint reduction
- Supports integration with versatile IoT devices
- Cybersecurity with IEC 62443 certified
- Supports private and PLANET cloud platforms



Unified Platform Integration

The NMS-AIoT platform integrates multiple communication protocols, including **LoRa**, **Wi-Fi HaLow**, **Modbus**, and **PDU**, enabling unified management of wired and wireless IoT devices across enterprise infrastructures. With AI-powered analytics, sensor data is transformed into predictive insights for intelligent, multi-site energy analysis.



ESG Energy Management Reporting

NMS-AIoT supports ESG energy management reporting with real-time sensor data analysis and AI-driven insights. By identifying abnormal energy usage, analyzing historical trends, and enabling predictive planning, the platform helps enterprises optimize energy consumption and reduce carbon emissions.



Cybersecurity Compliance

Security is a paramount concern in IoT deployments. The NMS-AIoT platform is certified with IEC 62443, ensuring robust cybersecurity measures. It includes SSL VPN and hybrid VPN support, enhancing secure communications and protecting sensitive data from potential cyberthreats.

AI and Edge Computing Integration

NMS-AIoT combines AI and edge computing to process data locally, reducing latency and improving operational efficiency. By analyzing real-time and historical energy and environmental data, the platform enables intelligent anomaly detection, energy forecasting, and predictive maintenance—helping enterprises act before issues occur.



Flexible Deployment Options

The NMS-AIoT supports both private and PLANET cloud platforms, offering flexible deployment options for enterprises. This flexibility ensures that the solution can be tailored to specific organizational needs, whether they require on-premise or cloud-based solutions.

Centralized Intelligent Management Interface

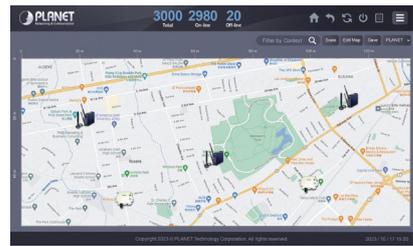
The NMS-AIoT features a Centralized Intelligent Management Interface designed to be intuitive and user-friendly. This interface provides a comprehensive dashboard that offers real-time monitoring and management of all connected IoT devices. With clear visualizations and easy-to-navigate menus, users can quickly access vital information, analyze data, and make informed decisions. The user-centric design ensures that even those with minimal technical expertise can efficiently operate the system, maximizing productivity and minimizing downtime.



User-friendly Dashboard Design



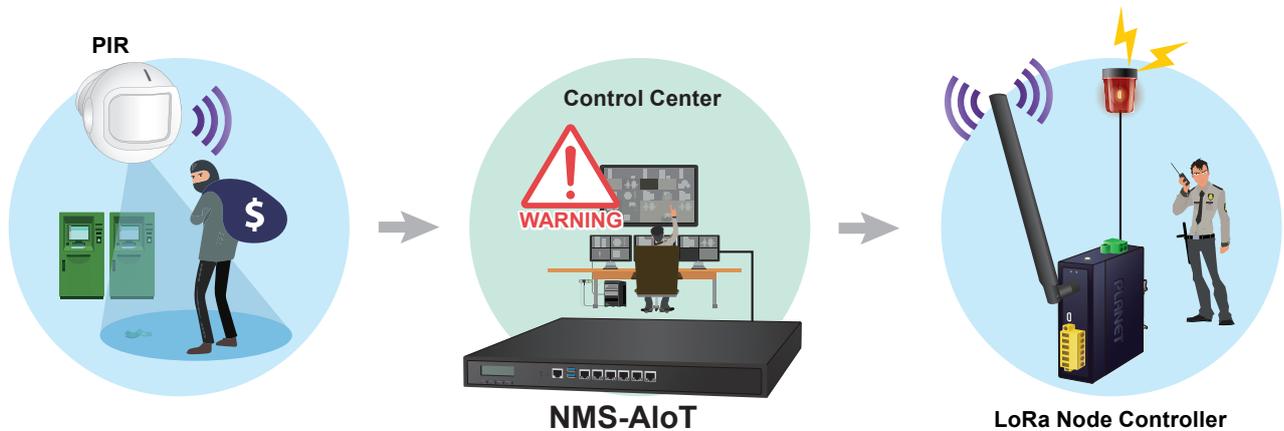
Complete Data Report



Centralized Management of IoT Devices

Smart Automation for Optimized Device Control

Advanced automation rules leverage sensor-monitored thresholds to trigger precise device actions. By optimizing automation based on predicted energy behavior, NMS-AIoT enhances real-time control and operational efficiency across IoT environments.



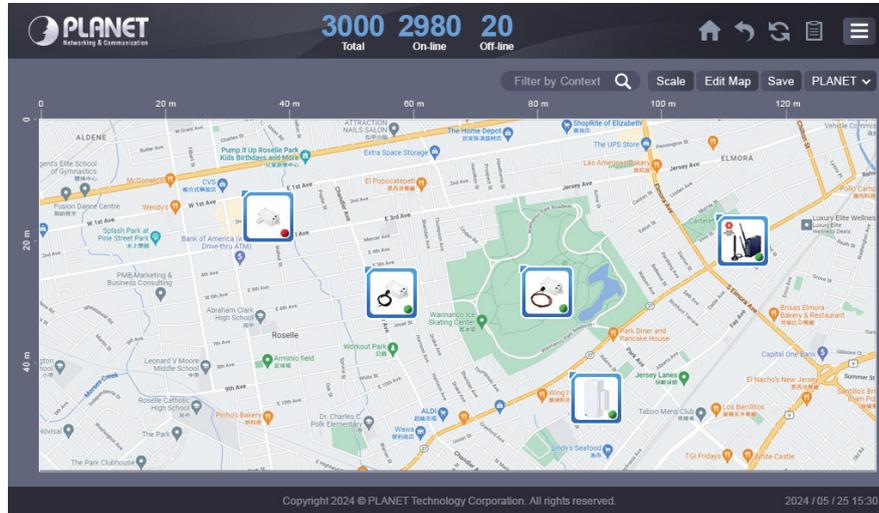
Carbon Emissions Tracking for ESG Goals

PLANET NMS-AIoT supports accurate carbon emissions tracking for ESG assessments. With AI-assisted forecasting, organizations can evaluate energy-saving strategies, estimate future emissions trends, and make informed decisions toward sustainability.



Map-based Sensor Location Management

The map-based sensor location management allows users to mark sensors on Google Maps, enabling users to easily view and manage device locations. This feature improves operational efficiency by providing real-time geographic insights for enhanced monitoring and management.



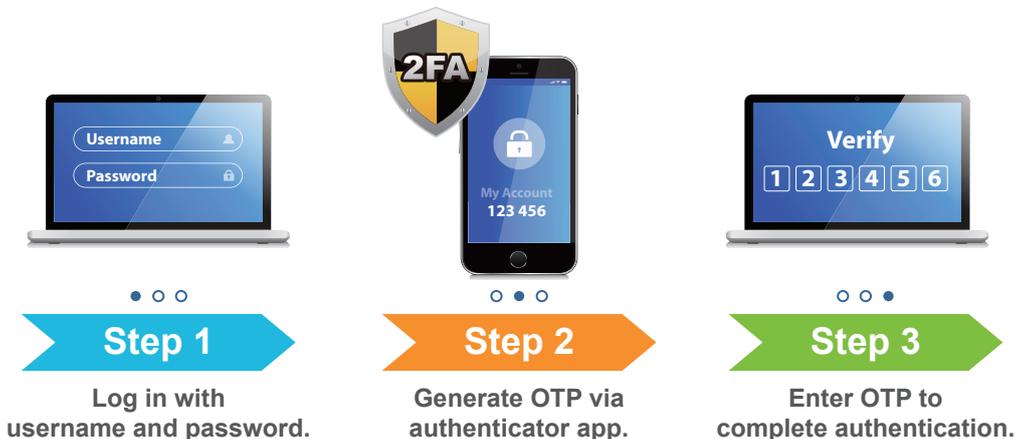
Comprehensive Sensor Data Export

Users can export a comprehensive set of monitoring data from NMS-AIoT including readings from all connected sensors. This feature allows for easy retrieval of data, ensuring detailed insights and analysis. Exported files include records of sensor activities, aiding in tracking environmental metrics and operational trends efficiently.



Enhanced Security with 2FA

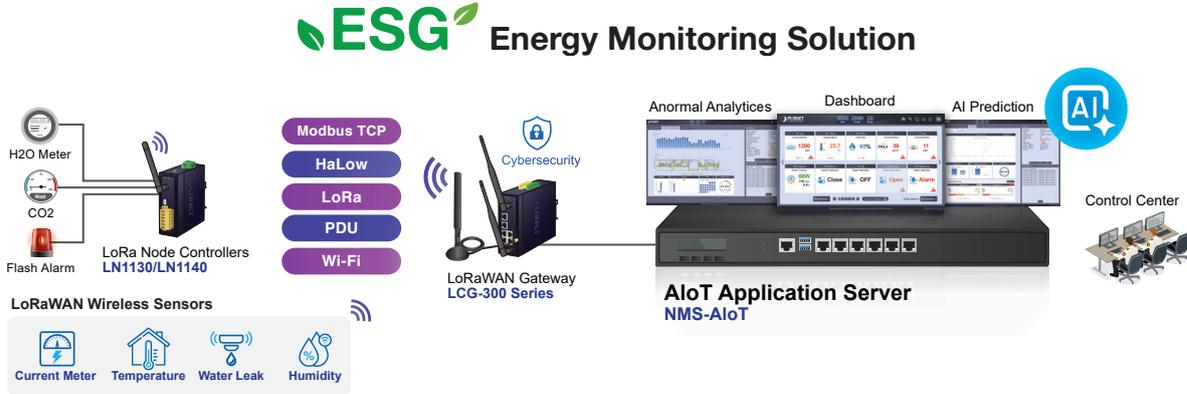
With 2FA (Two Factor Authentication) support, users benefit from added security, as two-factor authentication significantly reduces unauthorized access risks, providing stronger protection for sensitive data.



Applications

Smart Building Management

In smart building applications, NMS-AIoT integrates energy, environmental, and occupancy sensors to enable real-time monitoring and AI-driven energy optimization. This improves energy efficiency, operational visibility, and occupant comfort.



Industrial Automation

For industrial automation, NMS-AIoT connects industrial-grade sensors and controllers to analyze energy usage patterns, detect anomalies, and support predictive maintenance. This helps reduce downtime and operational costs.

Environmental Monitoring

NMS-AIoT supports environmental monitoring by collecting real-time data from air quality, water leak, and safety sensors. AI-powered analysis helps organizations identify risks early and maintain safe, sustainable environments.

Specifications

Model	NMS-AIoT
Physical Specifications	
I/O Interface	6 10/100/1000BASE-T Gigabit Ethernet RJ45 ports (LAN 5 and LAN 6 are designed for bypass functionality) 2 USB 3.0 ports (They cannot be used at the same time.) 1 factory default button (GPIO) 1 RJ45 Console port interface 2 DB-9 COM1, COM2 (reserved)
Storage	2.5" 64G SATA HDD
LED	2 LEDs (Power and HDD)
LCM Size (Active Area)	49.45 (W) x 9.58 mm (H)
LCM Button	4 touch buttons for enter, exit, up and down
Dimensions (W x D x H)	438 (W) x 180 (D) x 44 mm (H) 17.24" (W) x 7.09" (D) x 1.73" (H)
Weight	3 kg (6.62 lbs)
Form Factor	1U 19-inch rack-mount
Enclosure	Metal
Power Requirements	3-pin AC power input socket AC 100~240V , 65W
Environment & Certification	
Temperature	Operating: 0 ~ 50 degrees C Storage: -20 ~ 70 degrees C
Humidity	5 ~ 90% relative humidity (non-condensing)
MTBF (Hours)	100,000
Network Management	
Dashboard	Providing the at-a-glance view of center system, events summary, monitored record of each sensor and real-time alarm status
Device List	Manages all sensors and devices in the NMS-AIoT
Detailed Information	Displays monitoring and history records, the latest 10 event list, and current information for sensors.
User Management	Privilege Level Configuration
AI Prediction	AI-Based Prediction for Power Usage Analysis and Anomaly Event Detection
Reports	The alarm event of each sensor can be reported based on customized rules or system updates/changes. ESG Reporting with Monthly, Quarterly, and Annual Analysis

Alarm System	Email alerts for the administrator via the SMTP server
Automatic Rules	Create one or more customized automatic rules for each sensor
Maximum Scalability	3,000 nodes
Standards Conformance	
Regulatory Compliance	CE, FCC
Standards Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000BASE-T

Ordering Information

NMS-AIoT	Universal Network Management AIoT Application Server with LCD & 6 10/100/1000T LAN Ports
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Related Products

LCG-300-NR	Industrial LoRaWAN + 5G NR Cellular Gateway with 5-Port 10/100/1000T
LCG-300W	Industrial LoRaWAN Wireless Gateway with 5-Port 10/100/1000T
LCG-300	Industrial LoRaWAN Gateway with 5-Port 10/100/1000T
LCG-350W-NR	Industrial Outdoor LoRaWAN 5G NR Cellular Gateway
LS100-WL	IP65 LoRaWAN Water Leak Sensor (EU868/US915 Sub 1G)
LS100-PIR	IP30 LoRaWAN Indoor Occupancy Sensor (Occupancy/Light/Temperature -20~55 degrees C, EU868/US915 Sub 1G)
LS100-DW	IP30 LoRaWAN Door and Window Sensor (EU868/US915 Sub 1G)
LS100-SMK	IP20 LoRaWAN Smoke Detector (High-Temperature Alarm, EU868/US915 Sub 1G)
LS200-TH	IP65 LoRaWAN Indoor Temperature and Humidity Sensor
LS200-PT	IP65 LoRaWAN Product Temperature Sensor (PT1000 Needle Probe -70~200 degrees C, EU868/US915 Sub 1G)
LS200-TC	IP65 LoRaWAN Machine Temperature Sensor (Thermocouple -40~125 degrees C, EU868/US915 Sub 1G)
LS200-RF	IP65 LoRaWAN Refrigerator Temperature and Humidity Sensor (-40~55 degrees C, EU868/US915 Sub 1G)
LS200-LG	IP65 LoRaWAN Light Level Sensor (EU868/US915 Sub 1G)
LS200-CM3	IP53 LoRaWAN 3-phase Current Meter (3 x 75A Clamp-On CT, EU868/US915 Sub 1G)
LS200-MF8	IP30 LoRaWAN Multi-functional Sensor