

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



Universal Network Management AIoT Application Server with LCD

PLANET's NMS-AIoT (Universal Network Management AIoT) Application Server can directly monitor over 3,000 sensing devices. In the era of edge computing and AIoT (Artificial Intelligence of Things) applications, enterprises require a high-performance, secure, and flexible management platform to integrate various wired and wireless IoT devices and massive environmental data. The NMS-AIoT Application Server offers a comprehensive solution by integrating energy management, wide-area transmission, and AI edge computing, providing an efficient and secure AI private cloud network for enterprises.

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

The exclusive product features for PLANET NMS solution include:

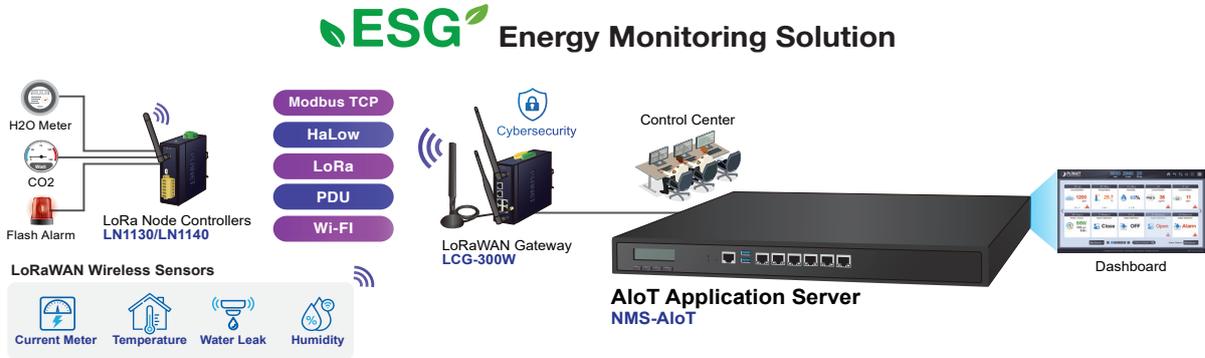
- ESG energy management reporting with real-time sensor data analysis and carbon footprint reduction
- Supports integration with versatile IoT devices
- Cybersecurity with IEC 62443 certified
- Supports private and PLANET cloud platforms



- 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

Unified Platform Integration

The NMS-AIoT platform integrates multiple communication protocols, including **LoRa, Wi-Fi HaLow, Modbus**, and **PDU**. This integration allows the management of over 3,000 sensing devices, supporting both wired and wireless connections. It ensures seamless communication and efficient management of various IoT devices across an enterprise's infrastructure.



ESG Energy Management Reporting

One of the standout features of the NMS-AIoT is its ability to support ESG (Environmental, Social, and Governance) energy management reporting. The platform provides real-time sensor data analysis and aids in reducing the carbon footprint by optimizing energy usage. This feature is critical for enterprises aiming to achieve sustainability and energy efficiency goals.

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

The platform leverages AI edge computing capabilities to process data locally at the edge of the network. This reduces latency and enhances the efficiency of data processing. Real-time monitoring and predictive maintenance are made possible, which optimizes operations and reduces downtime.

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

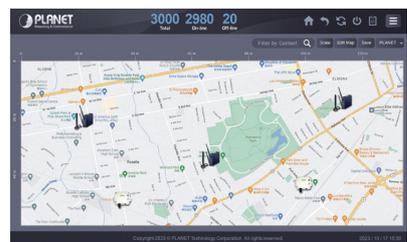
The NMS-AIoT features a Centralized Intelligent Management Interface designed to be intuitive and user-friendly. This interface provides a comprehensive dashboard that offers real-time monitoring and management of all connected IoT devices. With clear visualizations and easy-to-navigate menus, users 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



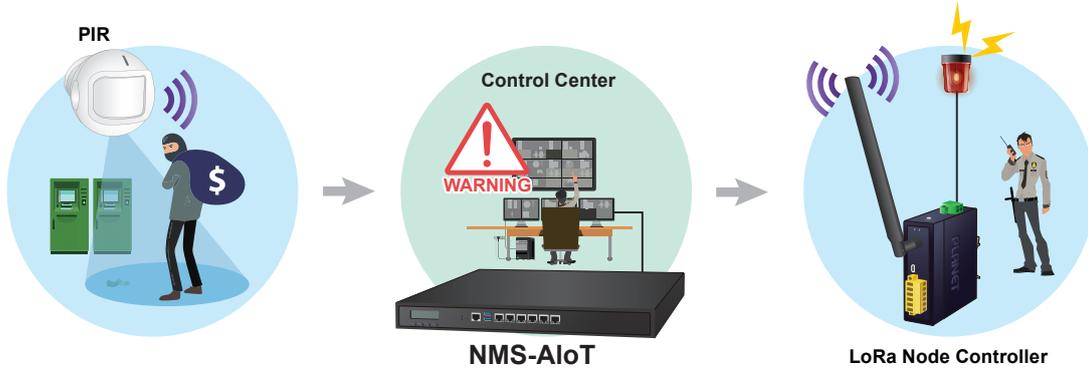
Complete Data Report



Centralized Management of IoT Devices

Smart Automation for Optimized Device Control

Advanced automation rules leverage sensor-monitored thresholds to trigger precise device actions, delivering enhanced responsiveness and operational efficiency. This solution drives smarter, real-time Digital Output operations for seamless, optimized control across your IoT environment.



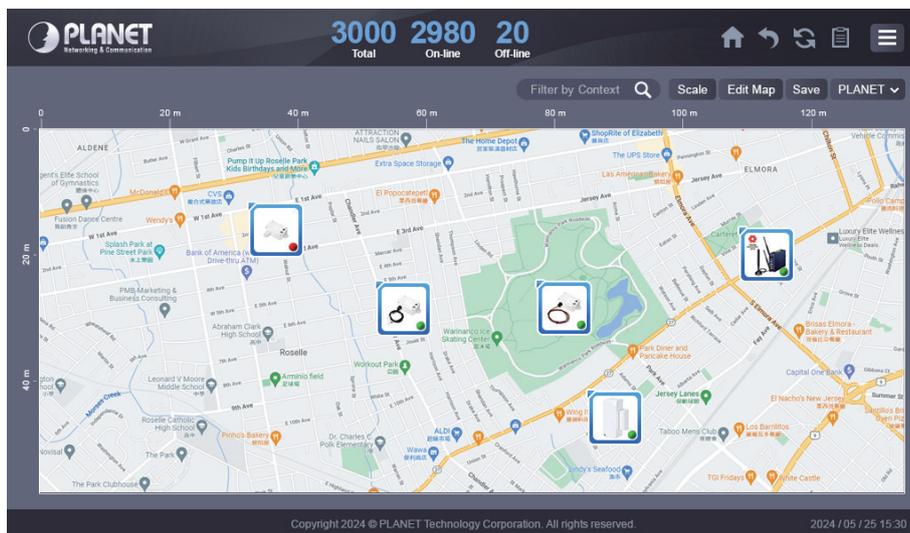
Carbon Emissions Tracking for ESG Goals

PLANET NMS-AIoT solution supports precise carbon emissions calculations, enabling accurate estimates for ESG sustainability assessments. This feature helps organizations track environmental impact and align with sustainable development goals, empowering informed decisions toward a greener future.



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.



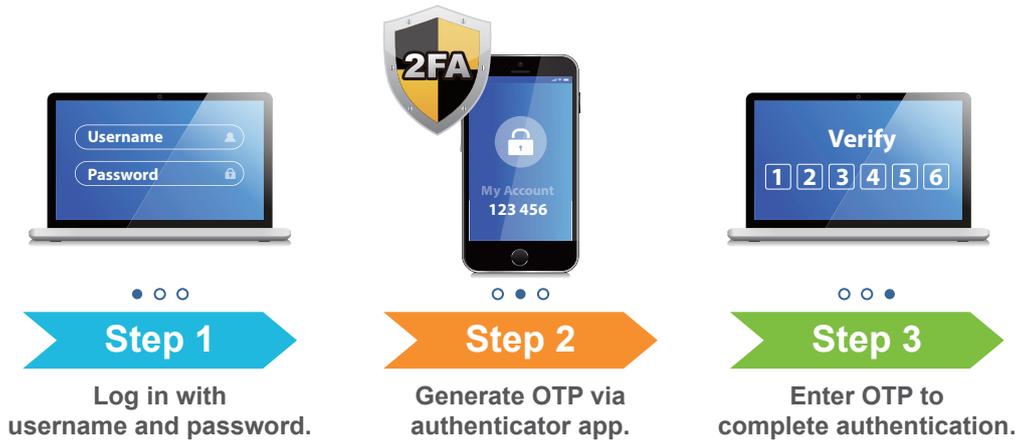
Comprehensive Sensor Data Export

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

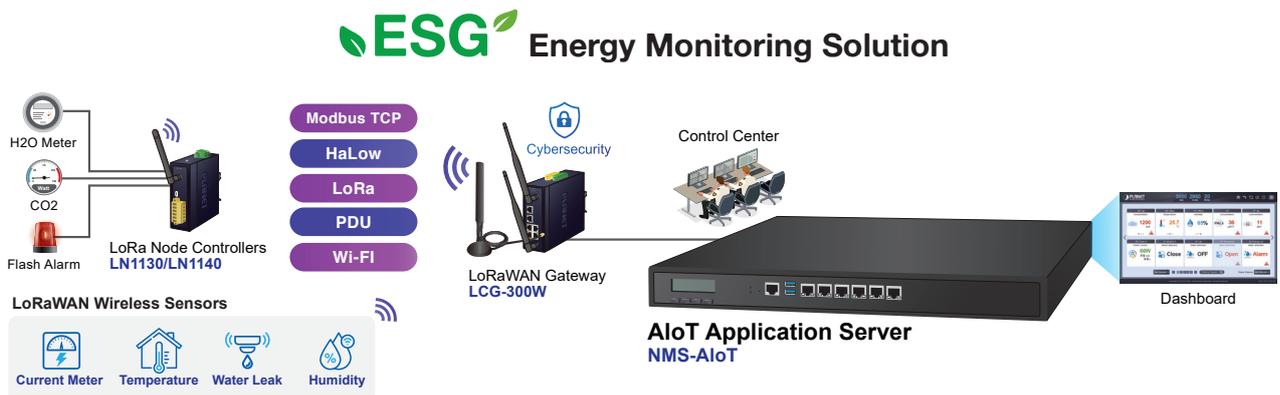
With 2FA (Two Factor Authentication) support, users benefit from added security, as two-factor authentication significantly reduces unauthorized access risks, providing stronger protection for sensitive data.



Applications

Smart Building Management

In smart building applications, the NMS-AIoT can manage various sensors, including temperature, humidity, occupancy, and energy usage sensors. This allows for real-time monitoring and optimization of building operations, enhancing energy efficiency and occupant comfort.



Industrial Automation

For industrial automation, the platform supports the integration of industrial-grade sensors and controllers, enabling precise monitoring and control of manufacturing processes. This results in improved productivity and reduced operational costs.

Environmental Monitoring

The NMS-AIoT is also ideal for environmental monitoring applications. It can integrate sensors for air quality, water leak detection, and other environmental parameters, providing real-time data for maintaining healthy and safe 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 LED (Power / 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
Detail Information	Displays monitoring and history records, the latest 10 event list, and current information for sensors.
User Management	Privilege Level Configuration
Event Reports	The alarm event of each sensor can be reported based on customized rules or system updates/changes.
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
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