Universal Network Management AloT Application Server with LCD

NMS-AIoT

Quick Installation Guide



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1. Package Contents

Thank you for purchasing PLANET Universal Network Management AIoT Application Server. PLANET NMS-AIoT is described below:

NMS-AIoT

Universal Network Management AIoT Application Server with LCD

Open the box of the **NMS-AIoT** and carefully unpack it. The box should contain the following items:

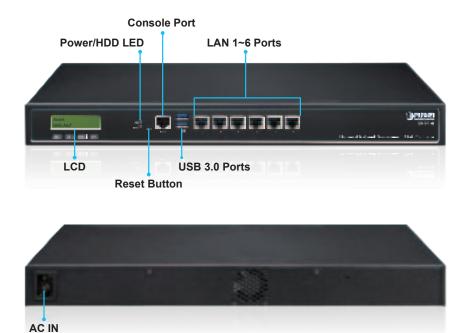
- NMS-AIoT Controller x 1
- Quick Installation Guide x 1
- Power Cord x 1
- Console Cable x 1
- Installation Kit x 1

If any item is found missing or damaged, contact your local reseller for replacement.

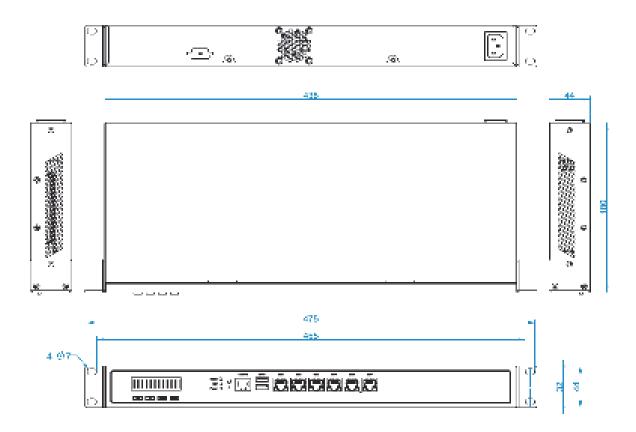
2. Hardware Description

2.1 Overview

2.2 Mechanical Drawing



2.2 Mechanical Drawing



2.3 Hardware Specifications

Product	NMS-AIoT
	Universal Network Management AIoT Application Server with LCD & 6 10/100/1000T LAN Ports
Physical Specifications	
I/O Interface	6 10/100/1000BASE-T Gigabit Ethernet RJ45 ports
	2 USB 3.0 ports (They cannot be used at the same time.)
	1 Factory default button (GPIO)
	1 RJ45 console port
	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 & Certificati	on
Temperature	Operating: 0 ~ 50 degrees C Storage: -20 ~ 70 degrees C
Humidity	5 ~ 90% relative humidity (non-condensing)
MTBF (Hours)	100,000

3. Product Features

Network Mana	gement	
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 Inforr	nation	Displays monitoring and history records, the latest 10 event list, and current information for sensors.
User Managem	nent	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 Rule	es	Create one or more customized automatic rules for each sensor
Maximum Scalability		3,000 nodes
Network Servi	ces	
	Backup	System backup and restore to local or USB HDD
Maintenance	Reboot	Provides system reboot manually or automatically per power schedule
Standards Con	formance	
Regulatory Compliance		CE, FCC
Standards Compliance		IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000BASE-T

4. Network Configuration

Set up the NMS-AIoT Controller with Ethernet connection for the first-time configuration by following the steps below.



Default IP Address: 192.168.1.100 Default Management Port: 8888

Default Username: admin Default Password: admin

Launch the Web browser (Google Chrome is recommended.) and enter the default IP address "https://192.168.1.100:8888". Then, enter the default username and password shown above to log on to the system.

The secure login with SSL (HTTPs) prefix is required.



After logging on, connect the NMS-AIoT Controller to the network to centrally control PLANET managed devices.

5. Bound IoT Devices Monitored via NMS-AIoT Controller

The NMS-AIoT can monitor all bound wired and wireless IoT devices, including managed gateways (LCG series), LoRaWAN sensors (LS-100/LS-200 series), and LoRa node controllers, all compliant with the LoRaWAN protocol.

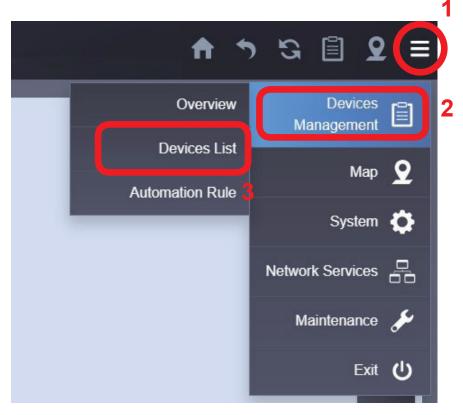
Please regularly check PLANET website for the latest compatibility list of managed devices.

Follow the steps below to set up the NMS-AIoT server and LoRaWAN devices.

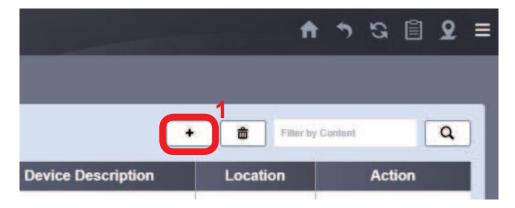
Step 1: Connect the devices, NMS-AIoT Controller, LoRaWAN gateway and your computer to the same network.



- **Step 2:** Add a new LoRaWAN gateway to the NMS-AIoT system, such as the LCG-300, LCG-300W, or LCG-300-NR.
- 1. In NMS-AIoT, press the "Menu" icon . Then click "Devices Management" and "Devices List" to go to devices list page.

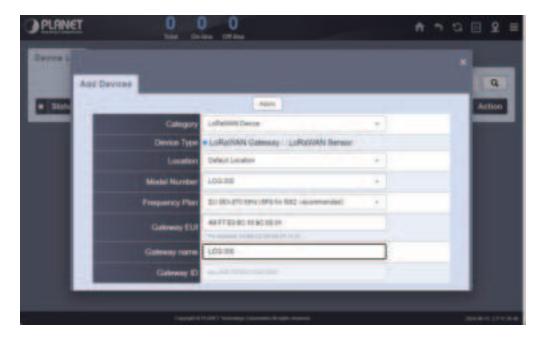


2. Press the "plus" icon + to open table to add new device.



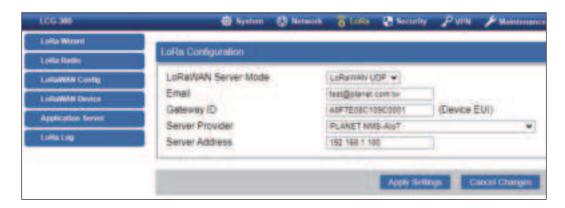
3. Add a new LoRaWAN gateway on the NMS-AIoT

Enter the relevant data for the LoRaWAN gateway.



4. Set up the LoRaWAN gateway on the LCG-300 device.

Select **PLANET NMS-AIoT** as the application server. Then, enter the IP address of NMS-AIoT and apply the settings.



After adding sensor(s), it will be show in device list in WEB UI of NMS-AIoT.

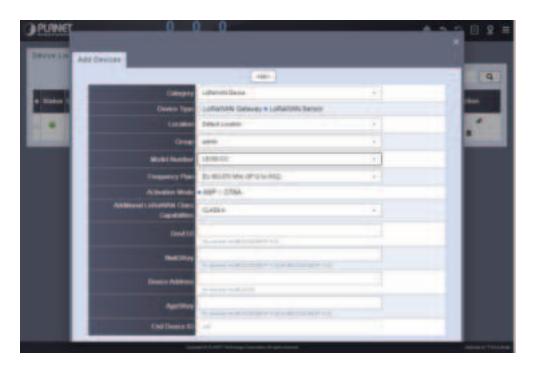


Step 3: Add new LoRaWAN sensors to the NMS-AIoT system.

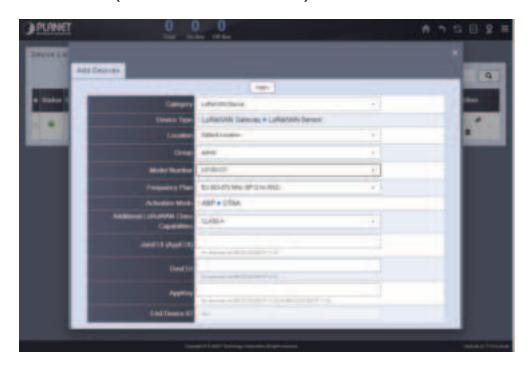
Add a new LoRaWAN sensor

Enter the relevant information for the LoRaWAN sensor so that NMS-AIoT can parse the sensor data. If you're unsure of the sensor information, please check the label on the sensor or its packaging, or contact the provider.

Activation Mode: ABP (Authentication By Personalisation)

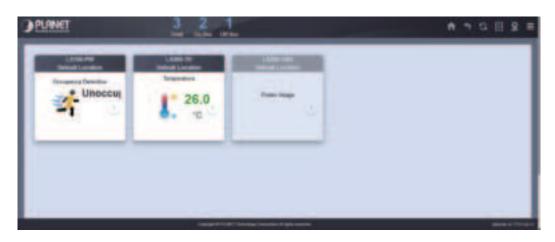


Activation Mode: OTAA (Over-The-Air-Activation)



After adding sensor(s), it will be show in device list in WEB UI of NMS-AIoT.





Step 4: Web User Interface

Dashboard View: Real-time alarms and individual sensor chart records



Overview of Sensors: Current monitoring of data for each sensor



Automatic Rule: Customize rule for each sensor



Event and Log: Event triggers or system event history records



6. Further Information:

The above steps introduce the simple installations and configurations of the NMS-AIoT Application Server. For further configurations of PLANET NMS-AIoT, please refer to the user manual, which can be downloaded from the website.

Thank you for purchasing PLANET products. You can browse our online FAQ resource and User's Manual on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team

PLANET online FAQs:

https://www.planet.com.tw/en/support/faq

Support team mail address: support@planet.com.tw

User's Manual:

https://www.planet.com.tw/en/product/NMS-AIoT



(Please select the suitable user's manual from the list.)

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