# Universal Network Management Controller with Touch LCD Screen

## NMS-1000V

Quick Installation Guide

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### 1. Package Contents

Thank you for purchasing PLANET Universal Network Management Controller. PLANET NMS-1000V comes in two sizes as described below:

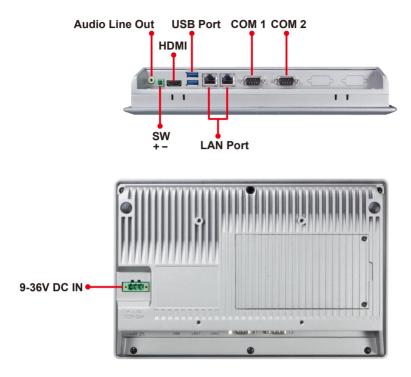
NMS-1000V-12 Universal Network Management Controller with 12" LCD Touch Screen

- NMS-1000V-10 Universal Network Management Controller with 10" LCD Touch Screen
- The NMS-1000V Controller x 1
- Quick Installation Guide x 1
- Adapter with Power Cord x 1
- Installation Kit x 1

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

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# 2. Hardware Description



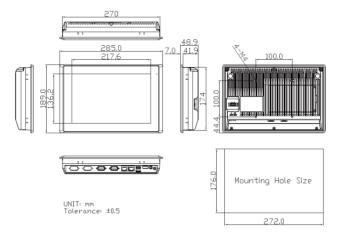
**Power Indicator** 



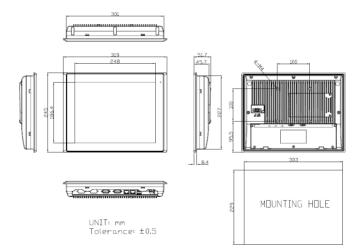
### 2.1 Physical Specifications

Model	NMS-1000V-10	NMS-1000V-12	
Dimensions (W x D x H)	285 x 49 x 189 mm	319 x 51.7 x 245 mm	
Weight	2 kg	2.9 kg	

#### NMS-1000V-10 (10" Panel)

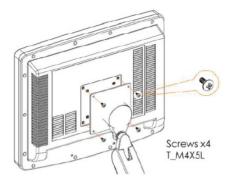


#### NMS-1000V-12 (12" Panel)



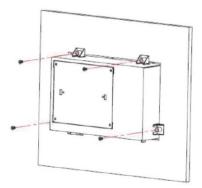
#### **VESA Mounting**

The NMS-1000V series is designed to be VESA-mounted as shown in the picture. Just carefully place the LCD stand on the back of the controller and tighten the given screws to secure the mounting.



#### **Panel Mounting**

There are eight holes located along the four sides of the NMS-1000V. Insert the clamp from the four sides and tighten them with the nuts provided.



### 2.2 Product Features

- Network Devices Management
  - Dashboard: Providing the at-a-glance view of system, device summary, traffic, and PoE network status.
  - > **Setup Wizard:** Easy-to-use step-by-step guidance.

- Node Discovery: To detect PLANET managed devices available and allow AP grouping to accelerate AP management.
- Topology Viewer: A topology of network devices compliant with SNMP, ONVIF, Smart Discovery and LLTD Protocol.
- Event Reports: The status of a network can be reported via network alarm, and system log.
- Alarm System: Popup alerts and email alerts for the administrator via the SMTP server.
- Batch Provisioning: Enabling multiple APs to be configured and upgraded at one time by using the designated profile.
- Coverage Heat Map: Real-time signal coverage of APs on the user-defined floor map to optimize Wi-Fi field deployment.
- Customized Profile: Allowing the creation and maintenance of multiple wireless profiles.
- > Auto Provisioning: Multi-AP provisioning with one click.
- > **Cluster Management:** Simplifying high-density AP management.
- > **Zone Plan:** Optimizing AP deployment with actual signal coverage.
- Authentication: Built-in RADIUS server seamlessly integrated into the enterprise network
- User Control: Allowing on-demand account creation and user-defined access policy
- > Scalability: Free system upgrade and AP firmware bulk upgrade capability
- Maximum Scalability: 50 floor maps, 1024 nodes, 128 AP groups, 128 SSID profiles, 1024 managed APs, 20,000 clients, 20,000 RADIUS user accounts, 50 RADIUS user groups and 1024 RADIUS clients.
- Network Management Characteristics
  - Built-in DHCP Server
  - Built-in RADIUS Server
  - > SSL secure access
  - > Web-based GUI management interface
  - SNMP v1, v2c, and v3 management
  - Supports PLANET DDNS/Easy DDNS

# 2.3 Specifications

	NMS-1000V-10 NMS-1000V-12			
Product	Universal Network Management Controller with LCD Touch Screen			
Platform				
Form Factor	Panel Mount, VESA 100 x 3	100		
Processor	Intel <sup>®</sup> Celeron <sup>®</sup> N2930 up	to 1.8 GHz		
Memory	Onboard 4GB DDR3L 1333	MHz		
Physical Specifications				
	2 10/100/1000BASE-T Giga	abit Ethernet RJ45 ports		
	2 USB 3.0 ports (They cannot be used at th	ne same time.)		
	1 Audio Line Out (reserve)			
I/O Interface	1 HDMI interface			
	2 DB-9 COM1, COM2 (rese	rve)		
	1 3-pin DC power input terminal			
	1 2-pin connector for power on/off button (reserve)			
Storage	2.5" 32G SATA3 HDD			
Touch LCD Size	10.1" TFT-LCD 12.1" TFT-LCD			
Touch Type	Resistive Touch Window Projected Capacitive Touch			
Display Resolution	1280 x 800	1024 x 768		
Display Luminance (cd/m <sup>2</sup> )	350	500		
Display Viewing Angle (H°/V°)	160(H) / 160(V)	160(H) / 140(V)		
Display Contrast	800:1	700:1		
Display Backlight Lifetime (hrs)	40,000 hrs 30,000 hrs			
Light Transmission (%)	Resistive Touch Window: over 80% Projected Capacitive Touch: over 90%			
Enclosure	Aluminum Die-casting Chassis			
Power Requirements	DC IN 9~36V 60W adapter 12V 5A with terminal block AC 100~240V, 2.0A, 60~50Hz.			

Environment & Certification				
IP Rating	IP66 compliant front bezel			
Temperature	Operating: 0 $\sim$ 50 degrees C Storage: -30 $\sim$ 70 degrees C			
Humidity	$10 \sim 90\%$ relative humidity (non-condensing)			
MTBF (Hours)	100,000			
Network Management				
Number of Managed Devices	1,024			
Number of RADIUS Client Devices	1,024			
Number of RADIUS User Accounts	20,000			
Auto Discovery	Supports PLANET devices			
Dashboard	Providing the at-a-glance view of system, device summary, traffic, and PoE network status			
Device List	Allows creation and maintenance of device profiles			
Topology View	Provides visual topology view of connected PLANET devices			
Status Monitoring	Real-time online/offline devices			
Event and Syslog Report	Real-time system event and syslog server supported			
SMTP Alarm	E-mail alert to the administrator via the SMTP server			
Popup Alert Message Window	Touch screen exclusive alert message window			
SSID/RF Profile	Allows creation and maintenance of multiple wireless profiles			
Cluster Management	Allows AP grouping for bulk provisioning and batch upgrading			
Bulk AP Provisioning	Supports bulk AP provisioning with user-defined profiles			
Bulk AP Firmware Upgrade	Supports bulk AP firmware upgrade			
Coverage Heat Map	Enables real signal coverage of managed APs reflecting on the uploaded zone maps			
Graphical Statistics	Real-time and historical visibility of wireless traffic flow			
Backup/Restoration	Provides system and profile backup/restoration			

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SSIDs-to-VLA	Ns Mapping	Allows to configure SSIDs-to-VLANs mapping in supported APs				
RADIUS Auth	entication	RADIUS server is integrated for client authentication in a large-scale enterprise network				
User Account	Management	Supports on-demand account creation per user- defined access policy				
Network Serv	ices					
	DDNS	Supports PLANET DDNS/Easy DDNS				
	DHCP	Built-in DHCP Server for auto IP assignment to APs				
Network	Management	Console; Telnet; SSL; Web browser (Chrome is recommended); SNMP v1, v2c, v3				
	Discovery	Supports SNMP, ONVIF and PLANET Smart Discovery				
	Backup	System backup and restore to local or USB HDD				
Maintenance	Reboot	Provides system reboot manually or automatically per power schedule				
	Diagnostic	Provides IPv4/IPv6 ping and trace route				
Standards Co	nformance					
Regulatory Co	ompliance	CE, FCC				
Standards Co	mpliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000BASE-T				

# 3. Deployed Devices Monitored via NMS-1000V Controller

The NMS-1000V can monitor all the deployed wired or wireless PoE industrialgrade network devices, such as managed switches, media converters, routers, smart APs, VoIP phones, IP cameras, etc. compliant with the SNMP Protocol, ONVIF Protocol and PLANET Smart Discovery utility.

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

Follow the steps below to set up the device from the **"Standalone device"** mode to the **"Managed device"** mode.

**Step 1.** Connect the devices, NMS-1000V Controller and your computer to the same network.



Step 2. Switch: Log in to the switch's Web user interface and enable the SNMP and LLDP function.

**AP:** Log in to the AP's Web user interface to configure the AP to **"Managed AP"**. In support of SNMP AP, enable the **SNMP** function.

**IP Cam:** The **ONVIF** function is enabled by default.

PLANET Networking & Communication	2         4         6         8         10         12         14         16         18         20         22         24           • DC         • PWR         •	21 22
WGSW-24040R	🔯 System 🗱 Switching 🔁 QoS 🔒 Security 🎤 Maintenance	CB
Management     SMMP     System Configuration     System Information     SMMP Trap Configuration     Trap Source Configuration     SMMPV3 Communities     SMMPv3 Users	SNMP System Configuration           Mode         Enabled         •           Engine ID         800028d80300304f554421           Apply         Reset	

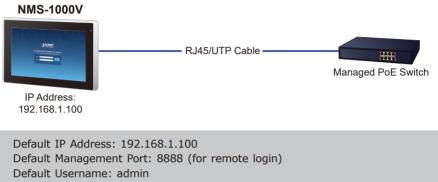
Port Management     Link Aggregation     VLANs     VLAN Translation				LL		Onfiguration Parameters	I	
Spanning Tree				Tx In	terval	l0 seco	nds	
► IGMP Snooping				Txl	lold 4	tin	nes	
MLD Snooping				Tx D	elay 2	seco	nds	
▶ MVR				Tx R	leinit 2	seco	nds	
LLDP  LLDP Configuration  LLDP Neighbors  LLDP-MED Configuration				LL	DP Por	t Configuration	tional TLVs	
LLDP-MED Neighbors     Port Statistics	Port	Mode	CDP Aware	Trap	Remo Port 1		System Capabilities	Management Address
MAC Address Table	*	Enabled 🔻						
Loop Protection	1	Enabled •			1			
▶ UDLD	2	Enabled •			1	<b>\$</b>		
▶ GVRP	3	Enabled •			\$	<b>\$</b>	<b>v</b>	Image: A start of the start
	4	Enabled •			1			1

Setup Menu:	Operation Mode			
> Operation Mode	AP Operation mode configuration is used to configure the managed AP administrative mode.			
> Setup Wizard	· ·			
> WLAN1 (5 GHz)	Standalone AP In Mode Standalone AP, the AP acts as an individual AP in the			
> WLAN2 (2.4 GHz)		network, and you manage it by using the Administrator Web User Interface (UI), or SNMP.		
> TCP / IP Settings	Managed AP	In Mode Managed AP, the AP is part of the PLANET Wireless		
> Management		AP controller System, and you manage it by using the WAPC Wireless Switch.		
> Logout		AP Controller IP Address 0.0.0.0		

For more information on the configuration of **Managed Devices** by using **PLANET NMS-1000V Controller**, refer to the user manual of the NMS-1000V Controller.

## 4. Network Configuration

Set up the NMS-1000V Controller with Ethernet connection for the first-time configuration by wizard.



Default Password: admin



After logging on, connect the NMS-1000V Controller to the managed network to centrally control PLANET managed devices.

# 5. Setup Wizard

#### 1. Account Modification: Set a new account and password for security.

Account Modification						
Configuration						
User Name PLANET123						
Password	Password 1qazIQAZ Ø					
Retype Password						
*Please key in a new account, except using "admin" New Password must be included at least 1*[a~z], 1*[A~Z], 1*[0~9],	$I^*[\sim,I,\textcircled{0},]$ and must contain at least 8 character.					

2. **IP Configuration Setting:** Set the NMS-1000V's IP into the same local network segment.

IP Configuration Setting						
Configuration Status						
Mode	Static IP V	Static				
IP Address	192.168.1.100	192.168.1.145				
Subnet Mask	255.255.255.0	255.255.255.0				
Default Gateway	192.168.1.254	192.168.1.1				
DNS Server 1		192.168.1.1				
DNS Server 2						

3. **SNMP Preference Setting:** Select region for AP Control (ETSI or FCC) and set up RO/RW community password.

SNMP Preference Setting						
Configuration						
Region *	ETSI					
RO Community	public					
RW Community private						
"Select Region for AP Control ( ETSI or FCC )						

4. **Devices Discovery:** Search the managed devices and add to list. (Finish Wizard)

Devices Discovery										
Search Add Filter by Content Q										
Num.	Device Type	Model No.	Device IP	Device Description	Support Authorization					
1	Wireless	WNAP-W2201A	192. <b>1</b> 68.1.195	WNAP-W2201A	<b>9</b>					
2	Wireless	WBS-502AC	192.168.1.172	WBS-502AC						
3	Wireless	WDAP-C7200E	192.168 1.129	C7200E_2F						
4	Router	IVR-100	192.168.1.1	Industrial VPN Security Gateway	7					
5	Industrial Switch	IGS-5225-8P4S	192.168.1.180	PLANET IGS-5225-8P4S 12G Managed Switch with 8 PoE+	T					
6	Switch	GS-4210-8P2S	192.168.1.109	L2/L4 Managed PoE Switch	7					
7	IP camera	ICA-3460V	192.168.1.177	PLANET						

## 6. Further Information

The above steps introduce the simple installations and configurations of the NMS-1000V Controller. For further configurations of PLANET NMS, please refer to the user manual, which can be downloaded from the website.

PLANET online FAQs: http://www.planet.com.tw/en/support/faq

Support team mail address: <a href="mailto:support@planet.com.tw">support@planet.com.tw</a>

User's Manual: https://www.planet.com.tw/en/product/nms-1000v



(Please select your model name from the Product Model drop-down menu)

If you have further questions, please contact the local dealer or distributor where you purchased this product.

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