

Universal Network Management System Software (LITE)



Universal Network Management System for Central Management

PLANET's Universal Network Management System (**UNI-NMS-LITE**) incorporated in a workstation or PC can monitor all the deployed wired or wireless PoE industrial-grade network devices, such as managed switches, media converters, routers, smart APs, VoIP phones, IP cameras, etc. compliant with the **MQTT Protocol**, **SNMP Protocol**, **ONVIF Protocol** and **PLANET Smart Discovery utility**. It thus enables the administrator to centrally manage the network from a central office, greatly boosting network and power management efficiency. With its user authentication management, the UNI-NMS series enhances data transmission security in the modern network automation systems.

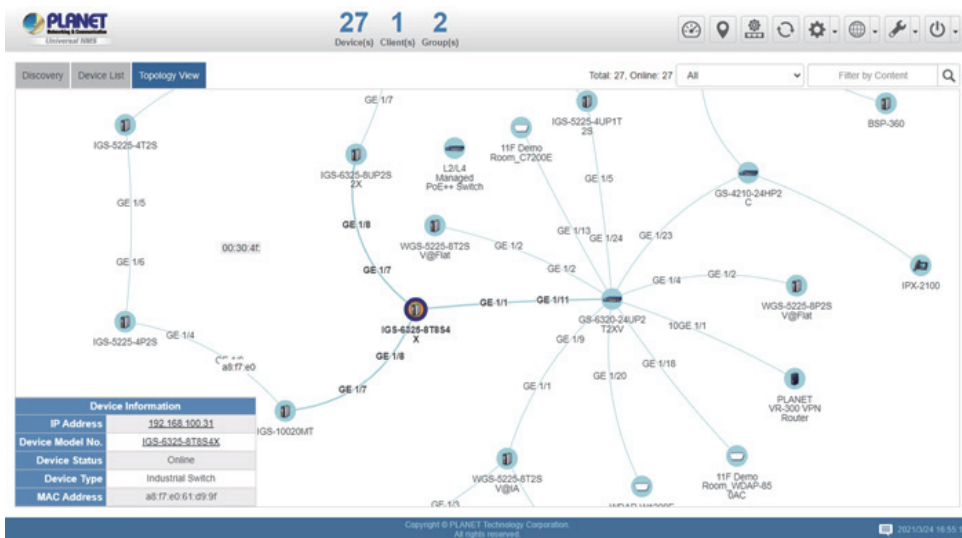


Watch Over Network within Minutes

The domain information web page presents a managed devices list and topology view, providing the at-a-glance and efficient summary of your management network. It lets you have a valuable information on the current wired and wireless network statuses via data-driven graphical charts. The topology view and event reports enable you to visualize the system usage and node status in real time so as to address whatever issue they may have.

- **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
- **Switch Virtual Panel (*1):** To show switch panel and easily configure the switch. Show PoE/Traffic usage statistical history graph form each port and total.
- **IP Cam Snapshot (*1):** Quickly snapshot button for plant IP camera
- **Event Reports:** The status of a network can be reported via network alarm, and system log
- **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 Provision:** Multi-AP provisioning with one click
- **Cluster Management:** Simplifying high-density AP management
- **Zone Plan:** Optimizing AP deployment with actual signal coverage
- **Scalability:** Free system upgrade and AP firmware bulk upgrade capability

Discovery	Device List	Topology View	Total: 27, Online: 27		All	Filter by Content		
Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
		00:30:4f:0c:12:02	Camera	IPCamera	N/A	192.168.100.115	HeroSpeed	
		00:30:4f:1a:12:35	Switch	WGS-4215-8HP2S	v1.305b210105	192.168.100.87	L2/L4 Managed PoE++ Switch	
		00:30:4f:b4:69:5d	Camera	ICA-3250V		192.168.100.119	ICA-3250V	
		00:30:4f:ba:e0:fa	VoIP	ICF-1800	v13.139.115.5.D	192.168.100.74	ICF-1800	
		00:30:4f:bc:36:5b	VoIP	IPX-2100	v3.2.4	192.168.100.71	IPX-2100	
		a8:17:e0:02:c4:c9	Camera	IPCamera	N/A	192.168.100.19	ICA-A3280	
		a8:17:e0:00:02:22	Switch	GS-4210-24HP2C	v1.305b200221	192.168.100.91	GS-4210-24HP2C	
		a8:17:e0:29:db:09	Industrial Switch	BSP-360	v1.253b170218	192.168.100.81	BSP-360	
		a8:17:e0:21:10:4e	Industrial Switch	IGS-5225-4T2S	v2.440b201203	192.168.100.36	IGS-5225-4T2S	
		a8:17:e0:33:44:56	Wireless	WDAP-850AC	WDAP-850AC-AP-ETSI-V3.0_Bulk20210104135430	192.168.100.220	11F Demo Room_WDAP-850AC	
		a8:17:e0:46:24:09	Wireless	WDAP-C7200E	WDAP-C7200E-AP-ETSI-V3.0_Bulk20210104135430	192.168.100.151	11F Demo Room_C7200E	
		a8:17:e0:54:0c:e1	Media Converter	ICS-2400T	v1.1910b200215	192.168.100.161	ICS-2400T	
		a8:17:e0:55:81:03	Wireless	WDAP-W1200E	WDAP-W1200E-AP-ETSI-V3.0_Bulk20210104135451	192.168.100.206	WDAP-W1200E_11F	
		a8:17:e0:57:91:b2	Industrial Switch	IGS-10020MT	v3.440b200817	192.168.100.35	IGS-10020MT	
		a8:17:e0:58:96:16	Media Converter	IMG-2200T	v1.1910b200407	192.168.100.162	IMG-2200T	



Switch Virtual Panel with Configuration Function

The UNI-NMS series enhances the switch by showing more information from devices list info. icon. It provides administrator with a faster way to manage switch and easily configure the system in NMS web UI. It also offers the PoE/Traffic usage statistical history graph from each port. If the network site has PLANET IP camera in device list, it can quickly do a snapshot of the video status on the site.

GS-4210-8P2S
• 9F Main Switch

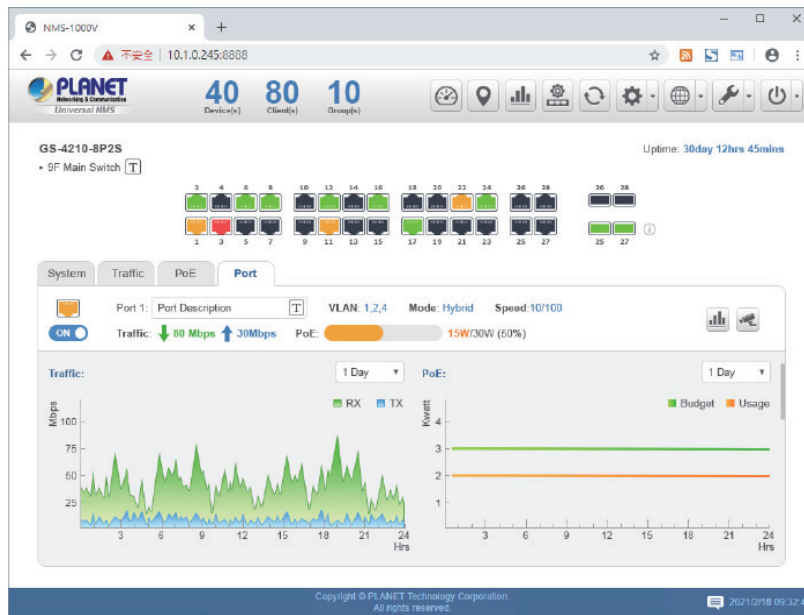
Uptime: 30day 12hrs 45mins

PoE Usage: 48W

Data Rate:
↓ 55Mbps
↑ 28Mbps

System Configuration:
 SNMP: Enable
 STP: Enable
 ERPS: Disable
 ERPS: Disable
 LLDP: Enable
 QoS: Enable

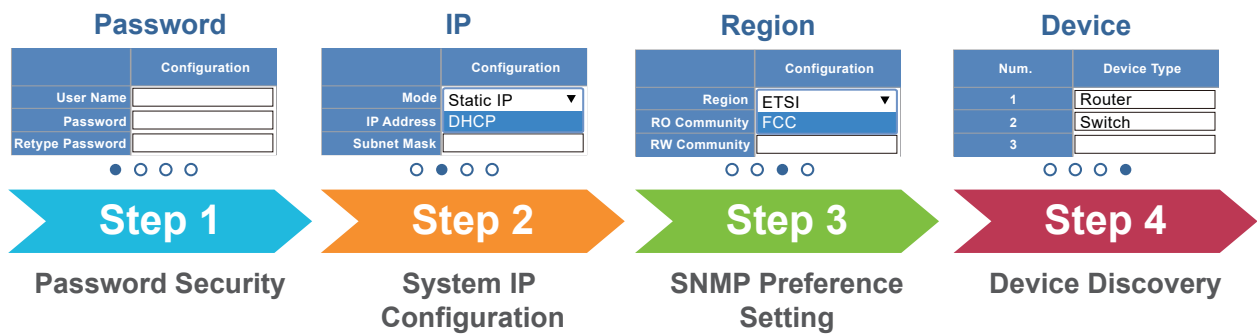
Device Information:
 Device Type: Industrial Switch
 IP Address: 10.1.11.36 (DHCP Client)
 Subnet Mask: 255.255.255.0
 Gateway: 10.1.11.254
 Firmware Version: v3.305b201026
 MAC Address: a8:17:e0:62:a8:88



User-friendly Setup Wizard

The **UNI-NMS-LITE** enhances user experience by providing more user-friendly wizard and clear step-by-step guidance on each related function. Just like an app, it reduces training time and allows even non-technical users to be able to set up management network system within minutes.

Setup Wizard



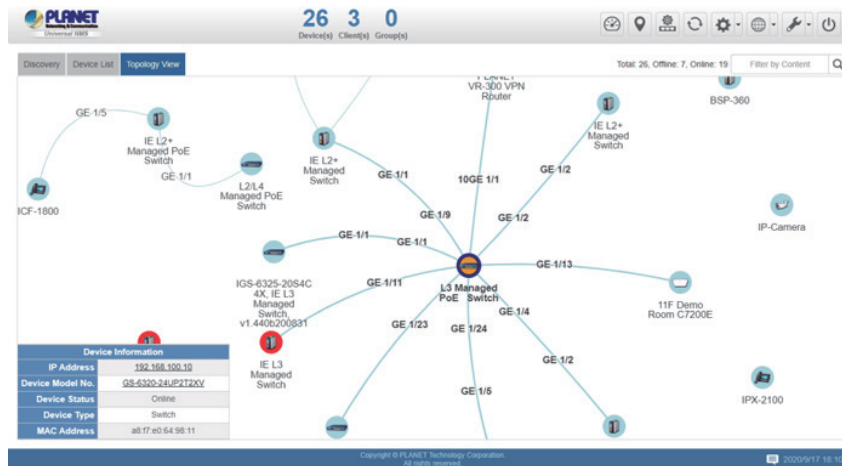
Interactive Dashboard Shows Network Statuses in an Instant

The **UNI-NMS-LITE**'s interactive dashboard includes local site network router, switch, access point statistics and WAN traffic/PoE history graph. The administrator can quickly view the status of a device, knowing whether it is online or offline. An alert through the pop-up message can be seen on the touch panel, immediately knowing what the system event is and where the disconnection issue comes from.



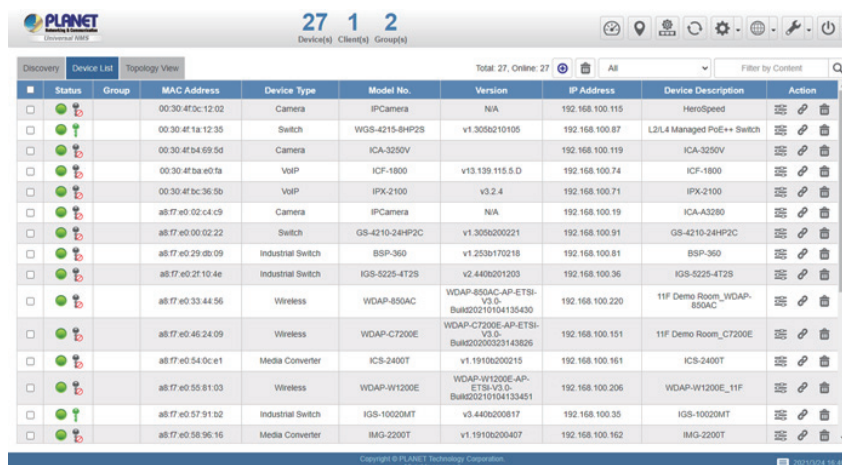
Real-time Centralized Monitoring

As the **UNI-NMS-LITE** can come out with a topology view of the network of the deployed powered devices, it enables to detect which device is online (Blue) or offline (Red). The real-time centralized monitoring of these devices can help the administrator know what the current statuses of these devices are.



Optimizing Wi-Fi Deployment with Floor Maps

With the floor maps, devices can be located according to the field deployment, thus saving your time and cost of on-site support and monitoring. The current statuses of devices are shown in real time and the heat map is able to show the wireless signal coverage and strength to help the administrator fine-tune the overlapping of the adjacent devices anytime to optimize the wireless network performance.

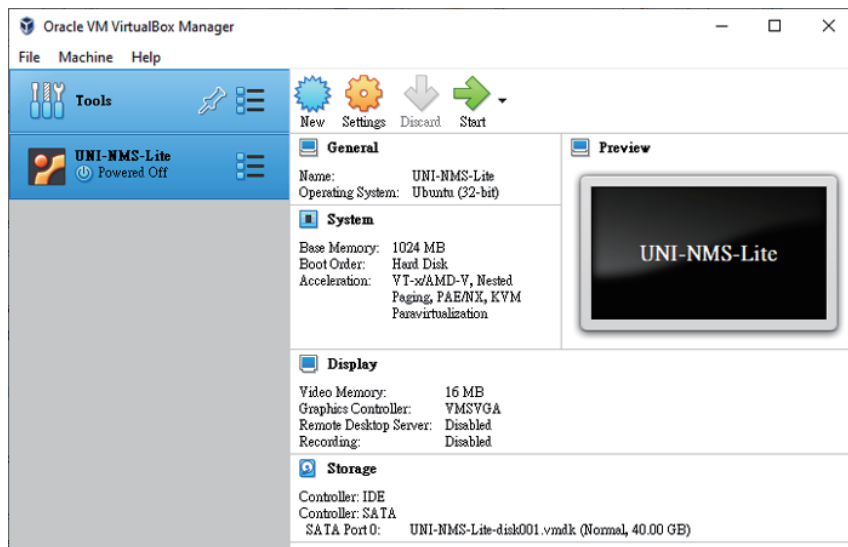


Status	Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
<input type="checkbox"/>		00:30:4f:0c:12:02	Camera	IPCamera	N/A	192.168.100.115	HeroSpeed	
<input type="checkbox"/>		00:30:4f:1a:12:35	Switch	WGS-4215-8HP25	v1.3056210105	192.168.100.87	L2/L4 Managed PoE++ Switch	
<input type="checkbox"/>		00:30:4f:b4:69:50	Camera	ICA-3250V		192.168.100.119	ICA-3250V	
<input type="checkbox"/>		00:30:4f:ba:e0:fa	VoIP	ICF-1800	v13.139.115.5.D	192.168.100.74	ICF-1800	
<input type="checkbox"/>		00:30:4f:bc:36:50	VoIP	IPX-2100	v3.2.4	192.168.100.71	IPX-2100	
<input type="checkbox"/>		a8:f7:e0:02:c4:c9	Camera	IPCamera	N/A	192.168.100.19	ICA-A3260	
<input type="checkbox"/>		a8:f7:e0:00:02:22	Switch	GS-4210-24HP2C	v1.3056200221	192.168.100.91	GS-4210-24HP2C	
<input type="checkbox"/>		a8:f7:e0:29:db:09	Industrial Switch	BSP-360	v1.253b17021b	192.168.100.81	BSP-360	
<input type="checkbox"/>		a8:f7:e0:21:10:4e	Industrial Switch	IGS-5225-4T2S	v2.4406201203	192.168.100.36	IGS-5225-4T2S	
<input type="checkbox"/>		a8:f7:e0:33:44:56	Wireless	WDAP-850AC	WDAP-850AC-AP-ETSI-V3.0-Bulk20210104135430	192.168.100.220	11F Demo Room_WDAP-850AC	
<input type="checkbox"/>		a8:f7:e0:46:24:09	Wireless	WDAP-C7200E	WDAP-C7200E-AP-ETSI-V3.0-Bulk20200323143826	192.168.100.151	11F Demo Room_C7200E	
<input type="checkbox"/>		a8:f7:e0:54:0c:e1	Media Converter	ICS-2400T	v1.19106200215	192.168.100.161	ICS-2400T	
<input type="checkbox"/>		a8:f7:e0:55:81:03	Wireless	WDAP-W1200E	WDAP-W1200E-AP-ETSI-V3.0-Bulk20210104133451	192.168.100.206	WDAP-W1200E_11F	
<input type="checkbox"/>		a8:f7:e0:57:91:b2	Industrial Switch	IGS-10020MT	v3.4406200817	192.168.100.35	IGS-10020MT	
<input type="checkbox"/>		a8:f7:e0:58:96:16	Media Converter	IMG-2200T	v1.19106200407	192.168.100.162	IMG-2200T	

Browser-based Control on VM Eliminates Limitation of OS

Designed to provide more flexibility, the **UNI-NMS-LITE** utilizes the Oracle VM VirtualBox technology to enable to import software image under different OS platforms, capable of operating from anywhere via web browser and network adapter that are able to access managed nodes on a DHCP-enabled network, thus controlling multiple devices through single PC, laptop or tablet which eliminates the hardware limitation of general hardware controllers. For better performance and more scalability, users just need to upgrade the personal equipment without replacing the original hardware controller. PLANET **UNI-NMS-LITE** is a value-added software which makes your network central management solution more efficient without any hardware installation and extra expensive budget.

*Using Chrome browser is recommended.

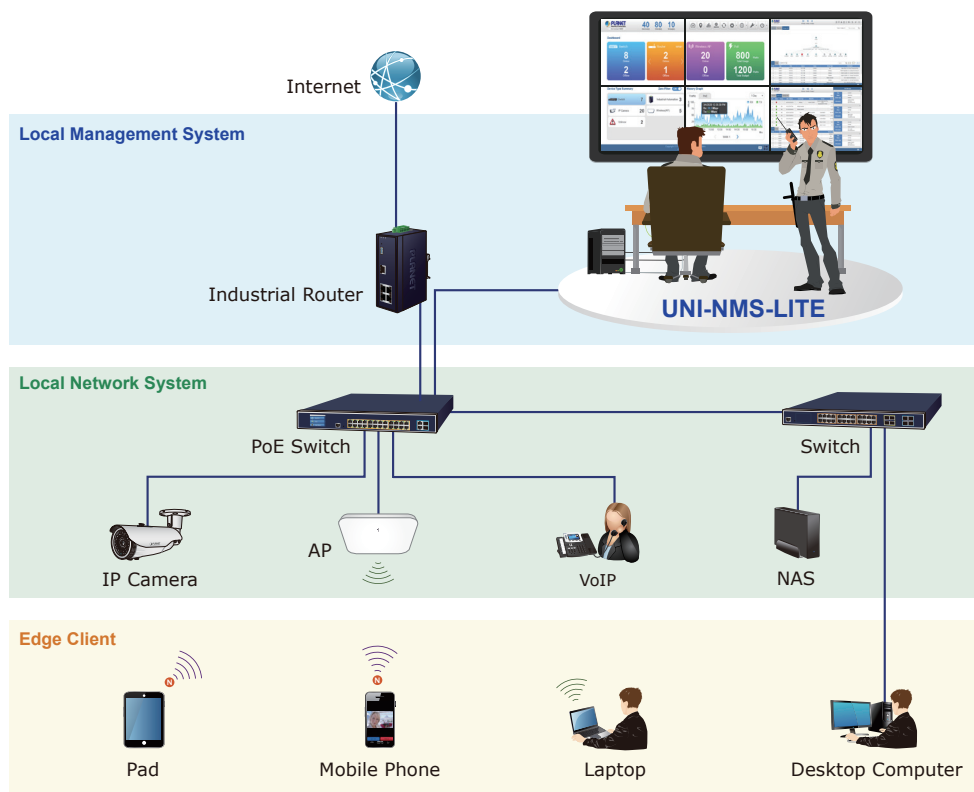


Applications

Economical Central Network Management Solution for SMBs

PLANET **UNI-NMS-LITE** helps service providers and IT managers control all PLANET network devices at the same time and enables administrators to effectively manage up to 100 managed nodes for free simultaneously without purchasing any license, hardware controller and expensive annual subscription fee.

The administrator can automatically discover and configure device profiles, batch provisioning/firmware upgrade, and built-in SAPC (Smart AP Control) that customize Wi-Fi planning against floor maps, and monitor all managed APs through single web-based interface. It allows operating across different platforms through virtualization software. Such design avoids the need to configure the wireless APs one by one and provides more profits to SMB users.



[Remarks]

Router: Log in to the router's Web user interface and **enable the SNMP and Remote Management** function.

Switch: Log in to the switch's Web user interface and **enable the SNMP and LLDP and Remote Management** 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.

Specifications

Product	UNI-NMS/UNI-NMS-LITE
UNI-NMS-LITE Management Features (of PLANET managed devices)	
Maximum Managed Nodes	100
Maximum AP Groups	8
Maximum APs per AP Group	100 (limited to the same model)
Maximum SSID Profiles	8
Maximum Radio Profiles	8
Maximum Concurrent Clients	400+
Maximum Floor Maps	1
Compatible Devices	Support PLANET MQTT, SNMP, ONVIF and Smart Discovery Products
Centralized Network Devices Management	<ul style="list-style-type: none"> ■ Auto discovery of devices with one touch ■ Device list with filtering function ■ Remotely control each managed device via hyperlink ■ Switch virtual panel with configuration function (*1) ■ Easy to build multiple sites in a network ■ Topology view of each site of network devices with LLDP Protocol (*2) ■ Event report on site issues via system log and syslog ■ Device alive checking ■ AP controller (SAPC Software function) ■ Floor map viewing ■ Dashboard viewing
Wireless AP Controller Features	
Centralized AP Management	<ul style="list-style-type: none"> ■ AP group management (bulk provision, upgrade, reboot, LED control) ■ AP provisioning ■ AP SSID, radio configuration ■ AP bulk firmware upgrade ■ Remote AP power reboot ■ Floor map viewing ■ Floor map import, custom map export* ■ Real-time AP signal coverage display ■ Real-time AP and wireless client status monitoring ■ Real-time graphical statistics viewing ■ Real-time wireless channel distribution
Encryption Type	64-/128-bit WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, 802.1x Authentication
Wireless Security	Enable/Disable SSID Broadcast AP Isolation
Multiple SSIDs per Frequency Band	Up to 4
RF Control	Output power Auto channel Traffic shaping per frequency band IAPP L2 roaming
System Management Features	
Management Interface	Web-based user interface
System Management	Management IP/port Login account modification System upgrade
Supported Display Type	Switch, Industrial switch, Media Conversion, Wireless (AP), VoIP, IP Camera
System Requirements	
Minimum Hardware Requirements	CPU: Intel Core i5 3.4 GHz dual-core or above RAM: minimum 4 GB HDD: 40 GB (Actual requirement is dependent on log size.)
OS Supported	Microsoft Windows 7/8/8.1/10 Mac OS X 10.8/10.9/10.10/10.11 (*1) Note: Supported OS is dependent on virtualization product.
Virtualization	Oracle VirtualBox 6.1 or later
Browser Supported	Chrome 31.0 or later Firefox 34.0 or later

Remarks: *1 New features will be added through system updates.

*2 Topology ring display.

Ordering Information

NMS-500	Universal Network Management Controller
NMS-1000V-10	Universal Network Management Controller with 10" LCD Touch Screen
NMS-1000V-12	Universal Network Management Controller with 12" LCD Touch Screen

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UNI-NMS/UNI-NMS-LITE