

PoE-Powered 6-Port Lite Smart Managed PoE+ Switch with 4 GbE Ports / 2 GbE Uplinks and PoE Passthrough

User Manual

Model 562034 (IPS-6GM02-60W)



INTELLINET[®]
N E T W O R K S O L U T I O N S

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This manual provides information about using Intellinet Network Solutions PoE-Powered 6-Port Lite Smart Managed PoE+ Switch with 4 GbE Ports / 2 GbE Uplinks and PoE Passthrough [562034 / IPS-6GM02-60W]

READER OBJECT

- Network Engineer
- Technical Promotion Personnel
- Network Administrator

TECHNICAL SUPPORT

Intellinet Website intellinet-network.com

MANUAL DETAILS

Command line format Convention

The meaning of the command line format is explained below:

Bold: the command line keywords (the parts that must be input as they remain unchanged in the command) are expressed in bold font.

Italics: command line parameters (parts of the command that must be replaced by actual values) are expressed in italics.

[]: indicates the part enclosed by [], which is optional during command configuration.

{ x | y | ... }: Indicates that one of two or more options is selected.

[x | y | ...]: Indicates to select one or none of two or more options.

//: a line starting with a double slash is represented as a comment line.

Description

- Some port types illustrated in this manual may be inconsistent with the actual situation. In actual operation, it is necessary to configure according to the port types supported by each product.
- The display information illustrated in this manual may contain the contents of other product series (such as product model, description, etc.), and the specific display information shall be subject to the actual equipment information.



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INTRODUCTION

Thank you for purchasing the Intellinet Network Solutions PoE-Powered 6-Port Lite Smart Managed PoE+ Switch with 4 GbE Ports / 2 GbE Uplinks and PoE Passthrough. Before you install and use this product, read this manual carefully for a full understanding of its functions.

PRODUCT OVERVIEW

This Web Smart Managed PoE Switch features 6 RJ45 ports with speeds of 10/100/1000Mbps. Each port supports automatic MDI/MDIX rollover and wire-speed forwarding. Ports 1-4 offer PoE power supply per IEEE 802.3af/at standards, serving as power sources for compatible devices. The switch utilizes storage and forwarding technology with dynamic memory allocation to effectively allocate bandwidth to each port. It offers user-friendly interface, enabling flexible expansion of home and office networks without being limited by power line layouts. It's easy to manage and maintain, adapting to diverse scenario requirements.

Web Smart refers to the device web management system, that is, the web management system that manages or configures the device, and manages the device by accessing Web Smart using a browser (such as Chrome).

Web management includes two parts: Web server and Web client. The Web server is integrated on the device to receive and process the requests sent by the client and return the processing results to the client. The Web client usually refers to the browser, such as Chrome, IE and FF.

FEATURES

- Supports IEEE 802.3, IEEE802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3p, IEEE 802.3q, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z.
- Power budget of 60 W.
- Supports PoE power up to 30 W for each PoE port.
- Supports MAC address auto-learning and auto-aging.
- Six 10/100/1000 Mbps self-adapting RJ45 ports
- Six gigabit RJ45 ports to link to higher-bandwidth equipment upstream.
- Store and forward switching architecture.
- Web-based management support.
- LED indicators for monitoring power, link/activity and PoE.



EXTERNAL COMPONENT DESCRIPTION

FRONT PANEL

The front panel of the Switch consists of six Gigabit ports; four are PoE-enabled and two are Gigabit uplink ports. Each of the four PSE ports (Ports 1-4) can provide up to 30 watts (with total capacity of up to 60W); non-PoE devices only receive data.

Reset button (Reset):

To reset the Switch press the button.

LED indicators:

The LED indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the switch, its connection or attached devices.

The following chart shows the LED indicators of the switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
PWR	Orange	On	Power is supplied via the AC adapter or the PD port.
		Off	No power is supplied to the switch
LINK/ACT	Green	On	A network link has been established
		Flashing	A network link has been established and data packets are being sent and received
		Off	No network link is established
POE	Orange	On	Port is supplying power to a connected PoE device.
		Flashing	Abnormal power supply
		Off	Port is not supplying power to a connected PoE device.

REAR PANEL

The rear panel of the Switch contains one grounding terminal and an AC power connector as shown.

AC Power Connector:

Power is supplied through an external AC power adapter. It supports 100 – 240 V AC, 50/60 Hz.

Grounding Terminal:

Wire the grounding terminal to an object that provides earth grounding (in rackmount installations, grounding is typically provided by the metal frame of the mounting rack), which is located on the side of the power supply connector.

PACKAGE CONTENTS

Before installing the Switch, make sure that the following packing list matches the items in the packaging. If any part is lost and damaged, please contact your place of purchase as soon as possible. In addition, make sure that you have the tools to install switches and cables on hand.

- PoE-Powered 6-Port Lite Smart Managed PoE+ Switch with 4 GbE Ports / 2 GbE Uplinks and PoE Passthrough
- Quick Instruction Guide
- AC Power Cord



INSTALLING THE SWITCH

This section describes how to install your Switch and make connections to it. Review the following topics and perform the procedures in the order being presented.

Use the following instructions to avoid incorrect installation, which could damage the Switch or void the warranty.

- Place the Switch on stable surface that can safely hold the switch and any related equipment.
- Make sure the Switch will be connected to power in the proper AC input range (refer to the switch label).
- Avoid electric shock — do not open the Switch housing, even if the switch is disconnected from power.
- Make sure that there is proper clearance on all sides of the Switch for proper heat dissipation and adequate ventilation.

DESKTOP INSTALLATION

When installing the Switch on a desktop, allow adequate space for ventilation between the device and the objects around it. Be sure to place the switch on a stable surface that can support the weight of the switch and any other components that may be placed on it.

WALL MOUNTING

First, install screws (not included) into the wall at appropriate distances. Then, hang the unit on the screws and slide it into place so it is secure.



CONFIGURATION GUIDE

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

CONNECTING TO POWER



Power down and disconnect the power cord before servicing or wiring a switch.



Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.



Disconnect the power cord before installation or cable wiring.

Connect the AC power connector on the back panel of the switch to the external power source with the included power cord, and check the power LED is on.

CONNECTING TO NETWORK

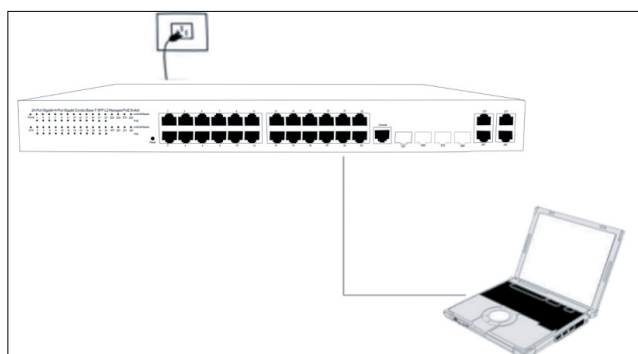
To connect the switch to the network:

- 1 Connect an Ethernet cable to the Ethernet port of a computer
- 2 Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.
- 3 Repeat Step 1 and Step 2 for each device to connect to the switch.



We strongly recommend using CAT5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Ethernet cable (UTP/STP) to connect the switch to end nodes.



Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.



LOGGING INTO THE SWITCH

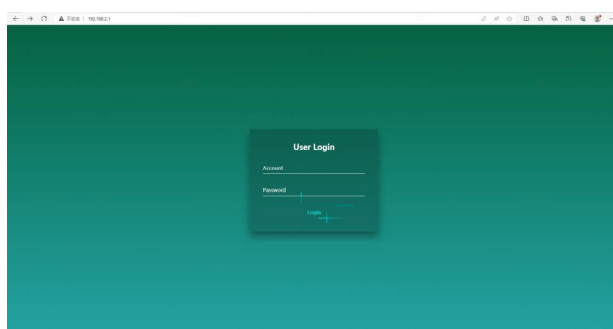
This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

LAUNCHING THE CONFIGURATION UTILITY

To open the web-based configuration utility:

- 1 Open a Web browser.
- 2 Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter.

After a successful connection, the login window displays.



LOGGING IN

To log in to the device configuration utility:

- 1 Enter the default user ID and the default password.
- 2 If this is the first time that you logged on with the default user ID and the default password it is recommended that you change your password immediately.
- 3 When the login attempt is successful, the System Information window displays.

PARAMETER	DEFAULT VALUE
Default IP address	192.168.2.1
Default Username	admin
Default Password	<i>the serial number of the Switch</i>

If you entered an incorrect username or password, an error message appears and the Login page remains displayed on the window.

By default, the application logs out after five minutes of inactivity.



To logout, click Logout in the top right corner of any page. The system logs out of the device.

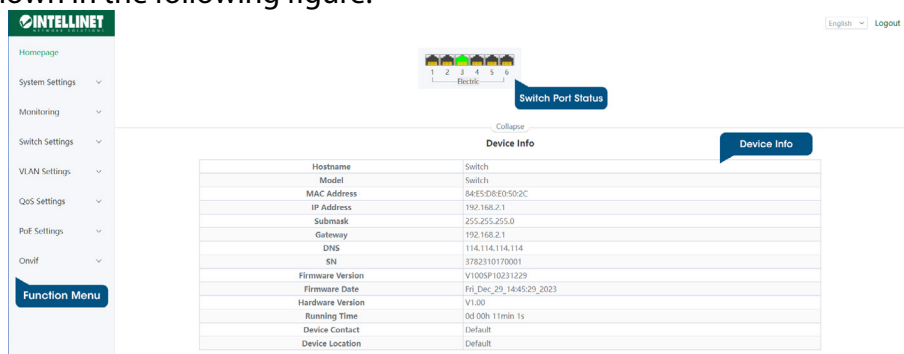
When a timeout occurs or you intentionally log out of the system, a message appears and the Login page appears, with a message indicating the logged-out state. After you log in, the application returns to the initial page.



WEB-BASED SWITCH CONFIGURATION

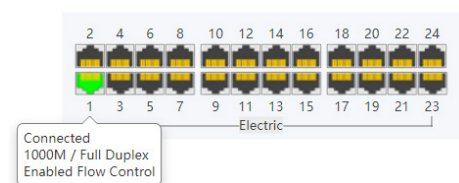
The WebSmart switch software provides Layer 2 functionality for switches in your networks. This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.

For the purposes of this manual, the user interface is separated into three sections, as shown in the following figure:



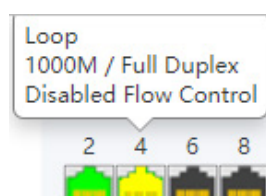
As you can see, the page is divided into two parts:

- The left part is the menu bar, which displays the links of all configuration functions of the equipment, such as monitoring management and switch configuration module.
- The right part is the content area, which is divided into upper and lower parts. The upper side is the port status bar, Chinese and English display switching and "Logout" button, and the lower side is the page content presentation and configuration area.

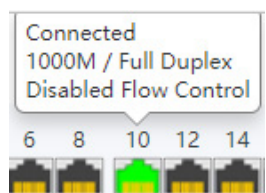


Port Status Bar:

Move the mouse to the port to display the basic status of the port (including port connection status, rate duplex and flow control status). Click "Collapse" to hide the port status bar and display more content areas to view other configuration information.



When a loop appears on the port, the port icon displays yellow



When the port works normally, the port icon displays green

The content area sometimes presents orange text (indicating the description of the function block)

Loop Guard

The port causing the loop will be shut down. After the loop is removed, the port will be up automatically.

Enabled



WEB SMART CONFIGURATION

HOMEPAGE

The homepage interface displays the basic information of the device.

Device Info	
Hostname	Switch
Model	Switch
MAC Address	84:E5:D8:E0:50:2C
IP Address	192.168.2.1
Submask	255.255.255.0
Gateway	192.168.2.1
DNS	114.114.114.114
SN	3782310170001
Firmware Version	V100SP10231229
Firmware Date	Fri_Dec_29_14:45:29_2023
Hardware Version	V1.00
Running Time	0d 00h 11min 1s
Device Contact	Default
Device Location	Default

SYSTEM SETTINGS

DEVICE INFO

Configure the information of the device, including Device Name, Device Contact and Device Location.

Device Info	
Hostname	Switch
Device Contact	Default
Device Location	Default
Apply	

IP SETTINGS

Configure device management IP (default static IP: 192.168.2.1)

IP Settings	
DHCP Client	Disabled
IP Address	192.168.2.1
Submask	255.255.255.0
Gateway	192.168.2.1
Auto Obtain DNS	Disabled
DNS	223.6.6.6
Apply	

When "Auto Obtain IP" is displayed as follows:

IP Settings	
DHCP Client	Enabled
IP Address	192.168.2.1
Submask	255.255.255.0
Gateway	192.168.2.1
Auto Obtain DNS	Enabled
DNS	223.6.6.6
Apply	



When configuring IP, the device will be disconnected briefly. If automatic IP acquisition is enabled, you need to obtain the configuration IP from the DHCP server on your network.



WEB SETTINGS

Configure web page timeout, default is 5 minutes.

WEB Settings	
WEB Timeout	5 Web timeout (1-60) minutes.
Apply	



The timeout can be configured for 1-60

TELNET SETTINGS

Configure Telnet timeout, default is 10 minutes.

Telnet Settings	
Telnet Status	Enabled
Telnet Timeout	10 Telnet timeout (1-60) minutes.
Apply	



The timeout can be configured for 1-60 minutes.

USER MANAGEMENT

Configure the account and password for web page login (The password must contain 6-16 characters and contain only letters, numbers and the following special characters: <=>[]!@#\$(*)().)

User Management	
Account	Account
Password	Password The password must contain only letters, numbers and the following special characters: <=>[]!@#\$(*)().
Confirm Password	Confirm Password
Apply	

UPGRADE

System upgrade can be divided into **Local** upgrade and **Online** upgrade:

1 Local upgrade

Click "**Select File**" and select the software package you want to upgrade in the pop-up file selection box (the software upgrade package is a file in xxx.bin format).

Local Upgrade	
Select File	
Decompress the package and select the bin file for upgrade.	

2 Online upgrade

This option is currently not available.

Online Upgrade	
Select bin file for device upgrade.	
Firmware name	
Server address	(Domain Name or IP address)
Now Firmware Version	V100SP10220721
Upgrade	



DEVICE MANAGEMENT

BUTTON	DESCRIPTION
Reboot	Click to restart the equipment
Restore	Click to restore the factory configuration and restart the equipment
Save Config	Click to save current device configure

Device Management

Reboot	Reboot	Reboot the switch.
Restore	Restore	Restore factory configuration and reboot the switch.
Save Configure	Save Configure	Save current device configure.

MONITORING

PORT STATISTICS

The Port Statistics page displays the data statistics and status of the device port, such as the port sending and receiving rate, sending and receiving packets, etc.

Port Statistics

No.	Port	Link Status	Rx/Tx Rate(Bps)	Rx/Tx Rate(pps)	Rx/Tx Success	Rx/Tx Failure
1	Port 1	Disconnect	0/0	0/0	0/0	0/0
2	Port 2	Disconnect	0/0	0/0	0/0	0/0
3	Port 3	Connected	5845/0	0/0	4848715/345385	0/0
4	Port 4	Disconnect	0/0	0/0	0/0	0/0
5	Port 5	Disconnect	0/0	0/0	0/0	0/0
6	Port 6	Disconnect	0/0	0/0	0/0	0/0

Clear

CABLE DIAGNOSTICS

It is possible to perform various tests of a attached cable via the corresponding port through cable detection (such as whether the cable is short circuited, disconnected, etc.).

Click **"Start All"** and wait for the test results to return.

Cable Diagnostics

This page detects the cable connection and the approximate location of the cable fault.
Length/Distance in meter from the port to the location on the cable where the fault was discovered.

Port	Test Result	Description
Port 1	-	-
Port 2	-	-
Port 3	-	-
Port 4	-	-
Port 5	-	-
Port 6	-	-

Start Start All

Cable Diagnostics

This page detects the cable connection and the approximate location of the cable fault.
Length/Distance in meter from the port to the location on the cable where the fault was discovered.

Port	Test Result	Description
Port 1	Normal	Normal (cable is terminated properly)
Port 2	Normal	Normal (cable is terminated properly)
Port 3	Disconnected	Please check whether the network cable is connected (open cable link parameter)
Port 4	Disconnected	Please check whether the network cable is connected (open cable link parameter)
Port 5	Disconnected	Please check whether the network cable is connected (open cable link parameter)
Port 6	Disconnected	Please check whether the network cable is connected (open cable link parameter)

Start Start All

LOOP GUARD (PART OF OUR SELF-HEALING NETWORK SUITE)

Configure enable loop guard

Loop Guard

The port causing the loop will be shut down. After the loop is removed, the port will be up automatically.

Enabled

Off

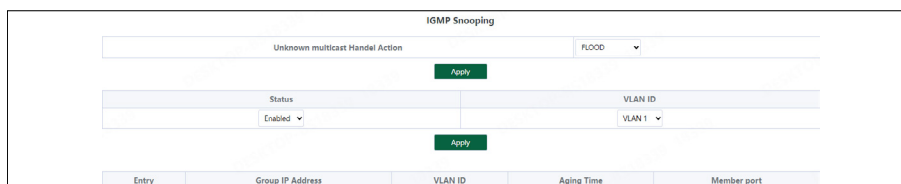


The port causing the loop will be shut down. After the loop is removed, the port will be up automatically. (Default is disable).



IGMP SNOOPING

Configure IGMP Snooping



The IGMP Snooping configuration interface includes a dropdown for 'Unknown multicast Handel Action' set to 'FLOOD', an 'Apply' button, a 'Status' dropdown set to 'Enabled', a 'VLAN ID' dropdown set to 'VLAN 1', another 'Apply' button, and a table with columns: Entry, Group IP Address, VLAN ID, Aging Time, and Member port.

Unknown multicast Handel Action can configure **FLOOD** or **DROP**, Select the VLAN you want to enable and click "**Apply**" to save.



IGMP Snooping only supports DIP mode, the maximum multicast entry is 10, Unknown multicast Handel Action default is flood.

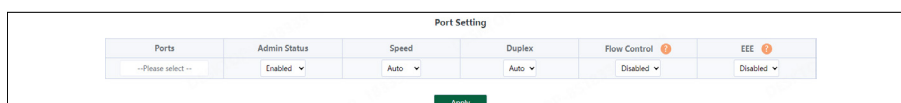
SWITCH SETTINGS

PORT SETTINGS

Port configuration can batch configure the status, speed, duplex, flow control and EEE (Energy Efficient Ethernet) properties of ports. The page is divided into two parts:

Configuration part:

Select the port to be configured, then select each attribute to be configured, and click "Apply" to distribute the configuration.



The Port Setting interface shows a table with columns: Ports, Admin Status, Speed, Duplex, Flow Control, and EEE. The 'Ports' column has a dropdown set to '--Please select --'. The 'Admin Status' is 'Enabled', 'Speed' is 'Auto', 'Duplex' is 'Auto', 'Flow Control' is 'Disabled', and 'EEE' is 'Disabled'. An 'Apply' button is at the bottom.

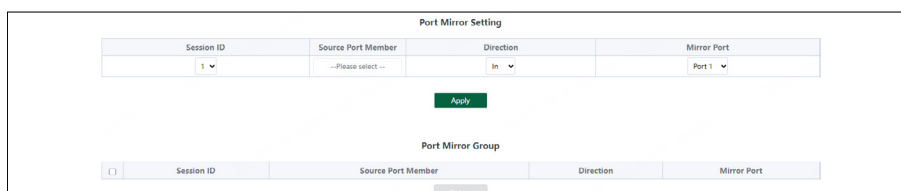
Display part:

Displays the configuration attributes and actual effective attributes of each port of the device.

Port List							
No.	Port	Admin Status	Speed Duplex		Flow Control		EEE
			Config	Actual	Config	Actual	
1	Port 1	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
2	Port 2	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
3	Port 3	Enabled	Auto/Auto	1000M/Full	Disabled	Disabled	Disabled
4	Port 4	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
5	Port 5	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled
6	Port 6	Enabled	Auto/Auto	Link Down	Disabled	Disabled	Disabled

PORT MONITORING

The input / output messages of one or more source image ports are forwarded to the destination image port to monitor the network.



The Port Mirror Setting interface includes a table with columns: Session ID, Source Port Member, Direction, and Mirror Port. The 'Session ID' is '1', 'Source Port Member' is '--Please select --', 'Direction' is 'In', and 'Mirror Port' is 'Port 1'. An 'Apply' button is below. Below this is a 'Port Mirror Group' section with a table with columns: Session ID, Source Port Member, Direction, and Mirror Port, and a 'Delete' button.



1. Source port and destination port cannot be the same;
2. Another mirror group is using the destination;
3. Supports 4 Session IDs



PORT ISOLATION

Configure isolation port group.

The interface shows the 'Port Isolation Setting' section with a table for adding isolation port groups. Below it is the 'Port Isolation Table' which is currently empty.

Port	Isolation Port
Port 1	--Please select--

Add

Port	Isolation Port
------	----------------

Delete

JUMBO FRAME

Configure the size of Jumbo Frames that can be forwarded.

The 'Jumbo Frame Config' interface shows a single input field for 'Jumbo Frame Size(Unit: Bytes)' with a dropdown menu set to '1522'.

Apply



1. Jumbo Frames can be configured with 1522, 1536, 1552, 9216 and 10000;
2. The default value of Jumbo Frames is 1522.

GREEN ENABLE

The 'Green Enable' interface shows a single input field for 'Green Enable' with a dropdown menu set to 'Disabled'.

Apply

Activate the additional green ethernet options for cable length detection and power management.

STATIC MAC

The static MAC configuration is divided into two parts.

Static MAC add:

Enter the legitimate MAC address, VLAN ID, and select the configured port number. Click **"Add"** to add static MAC.

The 'Static MAC Address' interface shows a table for adding static MAC addresses. A message at the top states: 'Up to 16 Static MAC addresses can be configured.'

MAC Address	VLAN ID	Port
00:00:00:00:00:00	VLAN1	Port 1

Add

Static MAC deletion and display:

After adding a legal static MAC, the corresponding data will be displayed; Check the static MAC and click **"Delete"**. After the configuration is successful, the MAC address, VLAN and corresponding port will be unbound.

☐	No.	MAC Address	VLAN ID	Port
☐	1	00:00:00:00:00:01	VLAN1	Port 1

Delete



Static MAC addresses maximum can be configured 16.



FILTER MAC

Configure filtered MAC address

Filter MAC Address

Up to 16 Filter MAC addresses can be configured.

MAC Address	VLAN ID
000000000000	VLAN1

No.	MAC Address	VLAN ID



Filter MAC addresses maximum can be configured 16.

SEARCH MAC

Search the MAC table learned by the device (support fuzzy search)

MAC Address Search

MAC Address	VLAN ID
00:00:00:00:00:00	VLAN ID: (1-4094)



The inquiry waiting process will interrupt the communication with the equipment

MAC LIST

Displays the list of MAC learned by the device

MAC Address Info

No.	MAC Address	VLAN ID	Type	Port
1	84:5D:68:00:85:F0	VLAN1	Dynamic	Port 2
2	20:7B:D3:25:AF:9A	VLAN1	Dynamic	Port 1

Click "Clear Dynamic MAC" and the device will get the learning MAC list again.



The display waiting process will interrupt communication with the device

DHCP SNOOPING

Configure DHCP Snooping function, which is disabled by default.

DHCP Snooping Settings

DHCP Snooping ☐

When DHCP Snooping is enabled, you can choose to trust ports or not. As shown in the following figure, the device sets the selected ports as trusted ports, and if it is not selected, all ports are untrusted ports; Click "Apply" to set the selected port as a trusted port and complete the configuration of DHCP snooping.

DHCP Snooping Settings

DHCP Snooping ☒

Status: ☒ Select All/Unselect

Trusted Port: ☒ Port 1 ☒ Port 2 ☐ Port 3 ☐ Port 4 ☐ Port 5 ☐ Port 6 ☐ Port 7 ☐ Port 8 ☐ Port 9 ☐ Port 10 ☐ Port 11 ☐ Port 12 ☐ Port 13 ☐ Port 14 ☐ Port 15 ☐ Port 16 ☐ Port 17 ☐ Port 18 ☐ Port 19 ☐ Port 20 ☐ Port 21 ☐ Port 22 ☐ Port 23 ☐ Port 24 ☐ Port 25 ☐ Port 26 ☐ Port 27 ☐ Port 28

VLAN: ☒ Select All/Unselect

☒ VLAN 1 ☒ VLAN 10 ☒ VLAN 20 ☒ VLAN 30



1. Enable DHCP snooping to filter DHCP messages. For the request message from DHCP client, only forward it to the trust port; for the response message from DHCP server, only forward the response message from the trust port.
2. Generally, the DHCP server port (upper connection port) is set as the trust port.



VLAN SETTINGS

The homepage interface displays the basic information of the device.

VLAN MEMBER

Configuration part:

Enter a valid VLAN ID and click **"Apply"** to configure a new VLAN member;

VLAN Member	
VLAN ID	(1-4094)
Apply	

Display part:

Displays the VLAN members newly added by the device, Select VLAN members in the VLAN member list and click **"Delete"** to delete VLAN members in batch

☐	No.	VLAN ID
☐	1	1
☐	2	10
☐	3	20
☐	4	30
Delete		



1. Configure up to 16 VLAN members;
2. When VLAN ID is bound by port, it cannot be deleted.

VLAN SETTINGS

Port VLAN configuration is divided into two parts:

Part I: Port VLAN configuration, select port, VLAN type (access and trunk, allow VLAN can be configured under trunk), allow VLAN and native VLAN, and click **"Apply"** to configure and save port VLAN (**Permit VLAN and Native VLAN are selected from the VLAN members configured above**);

Port	VLAN Type	Access VLAN	Native VLAN	Permit VLAN
--Please select --	Access	VLAN 1	VLAN 1	--Please select --
Apply				

Part II: Port VLAN list, which displays the VLAN configuration of the device port.



The message under Native VLAN does not have VLAN tag.

Port	VLAN Type	Access VLAN	Native VLAN	Permit VLAN
Port 1	Access	1	--	--
Port 2	Access	1	--	--
Port 3	Access	1	--	--
Port 4	Access	1	--	--
Port 5	Access	1	--	--
Port 6	Access	1	--	--



QOS SETTINGS

Including port rate limit and storm control functions.

PORT RATE

Configure the port ingress and egress rate, which is divided into two parts:

Configuration part:

Select one or more ports, select the configuration type and whether to enable the port speed limit (enter the value of the port speed limit when it is enabled), and click **"Apply"** to configure the port rate.

Port	Limit Type	Status	Rate(Mbit/sec)
--Please select--	Ingress	Disabled	No Limit (1-1000M)

Apply

Display part:

Displays the ingress rate and egress rate of the device port configuration.

Entry	Port	Ingress		Egress	
		Status	Rate(Mbit/sec)	Status	Rate(Mbit/sec)
1	Port1	Disabled	1000	Disabled	1000
2	Port2	Disabled	1000	Disabled	1000
3	Port3	Disabled	1000	Disabled	1000
4	Port4	Disabled	1000	Disabled	1000
5	Port5	Disabled	1000	Disabled	1000
6	Port6	Disabled	1000	Disabled	1000



Rate limit range: 1-1000M.

STORM CONTROL

Including port storm control configuration and display:

Configuration part:

Select the configured storm control type, one or more ports and whether to enable storm control (when enabled, enter the rate of storm control configuration), and click **"Apply"** to configure storm control.

Type	Port	Status	Rate(Mbit/sec)
Broadcast	--Please select--	Disabled	No Limit (1-1000M)

Apply

Display part:

Display the storm control type and corresponding rate configured by the device port (display the corresponding control rate when it is turned on).

No.	Port	Broadcast(Mbit/sec)	Unknown Multicast(Mbit/sec)	Unknown Unicast(Mbit/sec)
1	Port 1	Disabled	Disabled	Disabled
2	Port 2	Disabled	Disabled	Disabled
3	Port 3	Disabled	Disabled	Disabled
4	Port 4	Disabled	Disabled	Disabled
5	Port 5	Disabled	Disabled	Disabled
6	Port 6	Disabled	Disabled	Disabled



Rate limit range: 1-1000M.



QOS (QUALITY OF SERVICE) PROPERTY

Including QoS Property configuration and display:

Configuration part:

Select the configured Enable State, Queue Scheduling Mode, Priority Type and Weight, and click **"Apply"** configure QoS Property.

Property Config			
Enable State	Queue Scheduling Mode	Priority Type	Weight
Enabled	WRR	COS	1
Apply			

Display part:

Display the Enable State, Queue Scheduling Mode, Weighting of COS (Class of Service) and DSCP (Differentiated Services Code Point)

Enable State	Enabled
Queue Scheduling Mode	SP
COS	1
DSCP	6



1. The QoS function is disabled by default;
2. The Queue Scheduling mode supports SP (Strict Priority) and WRR (Weighted Round Robin).
3. The priority type supports COS and DSCP;
4. Priority types with higher weights have higher priorities. When the weights are the same, COS have higher priority.

COS PRIORITY MAPPING

Including configuration and display:

Configuration part:

Select the configured COS Priority and Inner Priority, and click **"Apply"** configure.

COS Priority Mapping	
COS Priority	Inner Priority
--Please select--	0
Apply	

Display part:

Display the COS Priority and Inner Priority.

COS Priority	Inner Priority
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7



The default COS priority corresponds to the internal priority 0-7 in turn.

DSCP PRIORITY MAPPING

Including configuration and display:

Configuration part:

Select the configured DSCP Priority Mapping and Inner Priority, and click **"Apply"** configure.

DSCP Priority Mapping	
DSCP Priority Mapping	Inner Priority
--Please select--	0
Apply	



Display part:

Display the DSCP Priority Mapping and Inner Priority.

DSCP Priority	Inner Priority	DSCP Priority	Inner Priority	DSCP Priority	Inner Priority	DSCP Priority	Inner Priority
0	0	16	2	32	4	48	6
1	0	17	2	33	4	49	6
2	0	18	2	34	4	50	6
3	0	19	2	35	4	51	6
4	0	20	2	36	4	52	6
5	0	21	2	37	4	53	6
6	0	22	2	38	4	54	6
7	0	23	2	39	4	55	6
8	1	24	3	40	5	56	7
9	1	25	3	41	5	57	7
10	1	26	3	42	5	58	7
11	1	27	3	43	5	59	7
12	1	28	3	44	5	60	7
13	1	29	3	45	5	61	7
14	1	30	3	46	5	62	7
15	1	31	3	47	5	63	7



Default DSCP priority 0-7 corresponds to internal priority 0, 8-15 corresponds to internal priority 1, and so on.

INNER PRIORITY MAPPING

Including configuration and display:

Configuration part:

Select the configured Inner Priority and Queue ID, and click “Apply”.

Inner Priority Mapping

Inner Priority	Queue ID
--Please select--	0

Apply

Display part:

Display the Inner Priority and Queue ID.

Inner Priority	Queue ID
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7



Default internal priority 0-7 corresponds to queue ID 0-7.

QUEUE SCHEDULING

Including configuration and display:

Configuration part:

Select the configured Queue ID and Weight, and click “Apply”.

Queue Scheduling Config

Queue ID	Weight
--Please select--	1 (1-127)

Apply

Display part:

Display the Queue ID and Weight

Queue ID	Queue Scheduling Mode	Weight
0	WRR	1
1	WRR	2
2	WRR	3
3	WRR	4
4	WRR	5
5	WRR	6
6	WRR	7
7	WRR	8



When the queue scheduling mode is SP, the weight cannot be set.
The default weight of the eight queues is 1.

Queue ID	Weight
1	1 (1-127)

Apply

Queue ID	Queue Scheduling Mode	Weight
0	SP	
1	SP	
2	SP	
3	SP	
4	SP	
5	SP	
6	SP	
7	SP	



When the queue scheduling mode is WRR, 0-7 of the queue ID corresponds to 1-8 of the weight by default.

POE SETTINGS

POE GLOBAL INFO

Displays the global information of the device PoE function

PoE Global Info	
PoE Hardware Version	V1.0
PoE Work Status	Normal
PoE Support Type	802.3af/802.3at
PoE Consumption Power	0W
PoE Port Number	4
PoE Total Power	60W
PoE Voltage	53 V
Software Version	V1.0.3

POE BASIC SETTINGS

Including PoE configuration and display:

Configuration part:

Select the PoE power supply status, priority and limited power of the configured port, and click **"Apply"** to configure PoE.

Port	PoE Control Status	Priority	PoE Limit
1	Enabled	Low	32 (1-32W)

Apply

Display part:

Display the power of port PoE and the current power supply status;

Entry	Port	PoE Control Status	Power Status	PoE Limit(1-32W)	Power	Priority	Class
1	Port1	Enabled	Off	32W	0W	Low	N/A
2	Port2	Enabled	Off	32W	0W	Low	N/A
3	Port3	Enabled	Off	32W	0W	Low	N/A
4	Port4	Enabled	Off	32W	0W	Low	N/A



Disable port PoE. Port PoE will not be powered.



PDM (POWERED DEVICE MONITOR) A POE WATCHDOG FEATURE

Includes PDM configuration and display:

Configuration part:

Configure the detection time of PDM (60-86400s. When no communication is detected on the port, PoE will be restarted automatically). Click “**Apply**” to configure PDM.

PD Alive	
Monitor Time	3600 (60~86400,default 3600s)
Apply	
Port	Monitor Status
--Please select--	Disabled
Apply	

Display part:

Displays the number of restarts of device PDM.

Entry	Port	Monitor Status	Reset Count
1	Port1	Disabled	0
2	Port2	Disabled	0
3	Port3	Disabled	0
4	Port4	Disabled	0

ONVIF (OPEN NETWORK VIDEO INTERFACE FORUM)

Support ONVIF protocol function to discover compatible devices

Onvif Detect			
MAC Address	IP Address	Port	Model
Detect Refresh			

Click “**Detect**” to find the device.

Onvif Detect			
MAC Address	IP Address	Port	Model
10:F0:13:F1:7C:0C	192.168.19.66	11	Switch
48:EA:63:60:69:83	192.168.19.8	11	NVR304-32E-B-DT
48:EA:63:28:A0:63	192.168.19.52	11	IPC331S-IR3-PF40-DT
Detect Refresh			



APPENDIX: TECHNICAL SPECIFICATIONS

HARDWARE SPECIFICATIONS

Standards and Protocols		IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x, IEEE 802.1q, IEEE 802.1p, IEEE802.3af, IEEE802.3at
Network Media		10Base-T: UTP category 3, 4, 5 cable (maximum 100 m) 100Base-Tx: UTP category 5, 5e cable (maximum 100 m) 1000Base-T: UTP category 5e, 6 cable (maximum 100 m)
Transfer Method		Store-and-Forward
Switching Capacity		12 Gbps
Packet Forwarding		8.93 Mpps
Packet Buffer		4.1 Mbit
MAC Address Table		8K, Auto-learning, Auto-update
Jumbo Frame		9K Bytes
Number of Ports		6 x 10/100/1000 Mbps ports PoE
PoE Ports(RJ45)		4 x PoE ports compliant with 802.3at/af
Power Pin Assignment		1/2 (+), 3/6 (-)
PoE Budget		60 W
Indicators	Per Port	10/100/1000 Mbps Link/Act: Green PoE: Orange
	Per Device	Power: Orange
Power Supply		AC 100 – 240 V / 50 – 60 Hz internal power
Power Consumption		Maximum: 65 W (220 V / 50 Hz)
Dimensions (W x D x H)		168 x 94 x 32mm (6.61 x 3.7 x 1.26 in.)
Environment		Operating Temperature: 0 – 40°C (32 – 113°F) Storage Temperature: -40 – 70°C (-40 – 158°F) Operating Humidity: 10 – 90% non-condensing Storage humidity: 5 – 90% non-condensing

SOFTWARE SPECIFICATIONS

Basic	System Settings	Monitoring	Switch Settings
- Login authentication and logout - Bilingual UI: - English - Chinese - Port Indication: 1000M green 100M/10M orange-yellow	- Device Info: - Hostname - Device Contact & Location - IP Settings - Static, DHCP Client, DNS - Web Settings: - Timeout - Telnet Settings: - Enable/disable Telnet, Timeout - User Management - Local Upgrade - Device Management - Reboot, Save Configure, Restore	- Port Statistics - Cable Diagnostics - Loop Guard: - RLPP - IGMP Snooping: - Flood/Drop, DIP Mode	- Port Settings: - Status, Speed/Duplex/Flow Control - Port Mirroring - In/Out/All - Port Isolation - Support 1522-10000 Bytes - Jumbo Frame - Green Enable - Static MAC - Filter MAC - Search MAC - MAC List: - Classified display static/dynamic mac address - DHCP Snooping
VLAN Settings	QOS Settings	PoE Settings	Cloud Settings
- VLAN Member - VLAN Settings: - Access - Trunk	- Port Rate - Storm Control - QoS Priority Mapping: - CoS and DSCP priority mapping - QoS Queue Scheduling: 8 queue, SP and WRR Queue Scheduling	- PoE Basic Settings: - Enable/disable PoE port - Force Power - PoE Port Limit - PD Alive	- Cloud Settings: - MQTT







WASTE ELECTRICAL & ELECTRONIC EQUIPMENT DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT

(Applicable In The European Union And Other European Countries With Separate Collection Systems)



ENGLISH: This symbol on the product or its packaging means that this product must not be treated as unsorted household waste. In accordance with EU Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE),

this electrical product must be disposed of in accordance with the user's local regulations for electrical or electronic waste.

Please dispose of this product by returning it to your local point of sale or recycling pickup point in your municipality.

DEUTSCH: Dieses auf dem Produkt oder der Verpackung angebrachte Symbol zeigt an, dass dieses Produkt nicht mit dem Hausmüll entsorgt werden darf. In Übereinstimmung mit der Richtlinie 2012/19/EU des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

ESPAÑOL: Este símbolo en el producto o su embalaje indica que el producto no debe tratarse como residuo doméstico. De conformidad con la Directiva 2012/19/EU de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse se con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo a su punto de venta o a un punto de recolección municipal para su reciclaje.

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A. Garantizamos los productos de limpieza, aire comprimido y consumibles, por 60 días a partir de la fecha de entrega, o por el tiempo en que se agote totalmente su contenido por su propia función de uso, lo que suceda primero.

B. Garantizamos los productos con partes móviles por 3 años.

C. Garantizamos los demás productos por 5 años (productos sin partes móviles), bajo las siguientes condiciones:

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REGULATORY STATEMENTS

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment to an outlet on a circuit different from the receiver; or consult the dealer or an experienced radio/TV technician for help.

CE

ENGLISH: This device complies with the requirements of CE 2014/30/EU and/or 2014/35/EU. The Declaration of Conformity for is available at:

DEUTSCH: Dieses Gerät entspricht der CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:

ESPAÑOL: Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:

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POLSKI: Urządzenie spełnia wymagania CE 2014/30/EU i / lub 2014/35/EU. Deklaracja zgodności dostępna jest na stronie internetowej producenta:

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