



Smart Managed Switch Web

User Manual



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Preface

Applicable Models

This manual is applicable to smart managed switches.

About Defaults

- Default administrator account: **admin**
- Super IP address: 10.180.190.200



Note

- The default user name **admin** needs to be activated for first-time login.
- The default IP address of the switch is dynamically assigned.
- The super IP address cannot be modified. If the switch is directly connected to a PC, the super IP address can be used to access the switch for device management.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

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1 Introduction

Smart managed switches support management via web, supporting functions such as activation and login, device overview, network configuration, device configuration, and system maintenance.

Note

The functions supported vary with device models. If there are differences between the figures shown in this manual and the actual interfaces of your device, the latter prevails.

2 Activation and Login

If you use the switch for the first time, you need to activate it and configure the password.

Before You Start

Ensure that your computer and switch are on the same network segment.

Steps

Note

All figures in this manual are for illustration purpose only.

1. Enter the default IP address of the switch in the address bar of a web browser, and press **Enter**.

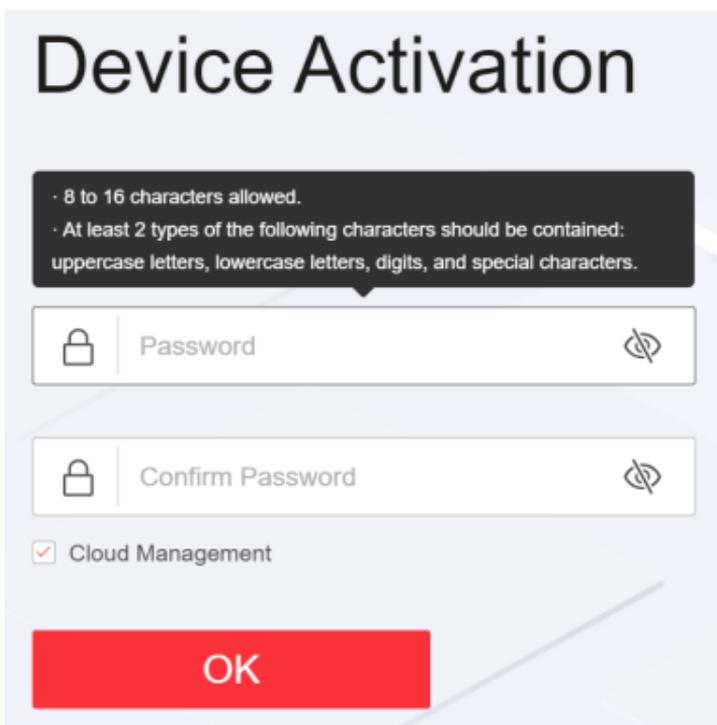


Figure 2-1 Activation

Note

- You can obtain the default IP address of the switch using the SADP tool.
 - You are recommended to use the following web browsers: Microsoft Edge 89 or later, Google Chrome 89 or later, and Firefox 78 or later.
-

2. Set a password and confirm the password.



Note

The password should contain 8 to 16 characters, including at least two types of the following categories: uppercase letters, lowercase letters, digits, and special characters.

3. **Optional:** Check **Cloud Management**.

The Hik-Connect service is enabled.

4. Click **OK**.

The network configuration page is displayed.

5. **Optional:** Modify the network configurations.

- 1) Go to **System** → **Network Configuration** → **Network Configuration**.

Figure 2-2 Network Configuration

- 2) Modify the IPv4 address, IPv4 subnet mask, default IPv4 gateway, preferred DNS address, and alternate DNS address as required, or enable **DHCP** for automatic IP address assignment.



Note

You are recommended to modify the network configurations to better manage your switch.

- 3) Log in to the switch web again with the new IP address after modification.

Figure 2-3 Login

3 Device Information

After logging in to the switch web, you can obtain detailed information about the switch, including the device overview information, port status information, and network status information.

3.1 Device Overview

You can view or edit the device overview information on the **Overview** page.

Basic Device Information

You can view the device model, software version, serial No., IP address, and MAC address of the switch in the lower right corner of the **Overview** page.



Figure 3-1 Basic Device Information

Device Name

You can view the current device name or click  next to it to customize the device name on the **Overview** page.



Figure 3-2 Device Name

Device Running Time

You can also view the running time of the current device in the upper right corner of the **Overview** page.



Figure 3-3 Device Running Time

VLANs Added

You can quickly view the number of VLANs that have been added, or click  to go to the **VLAN Management** page for VLAN configuration.



Figure 3-4 Number of VLANs Added

Cloud Platform Connection Status

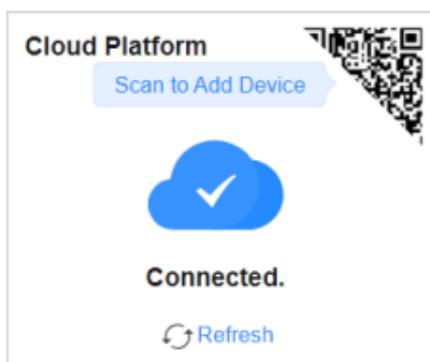


Figure 3-5 Cloud Platform Connection Status

The **Cloud Platform** module shows whether the device is connected to Hik-Connect.

- If the cloud platform is connected, scan the QR code to add the device to Hik-Partner Pro app for remote management.
- If the cloud platform is disconnected, click **Refresh** to reconnect, or click **Diagnose** to find out the cause of the connection failure and go to the cloud platform configuration page as prompted for cloud platform configuration.

3.2 Port Status

The **Overview** page provides a visual representation of the physical ports and shows the connection or power supply status of each port, making it easier for users to manage switch ports.

Port Panel

The **Port Panel** module displays the connection and power supply status of each port. When you hover the mouse over a port, the port name, connection status, rate/duplex, flow control status, and packet receiving/sending rate are displayed. If the port is a PoE port, you can view the PoE power of the port.

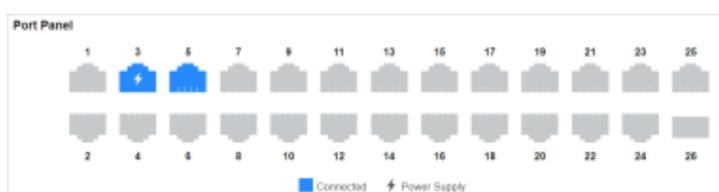


Figure 3-6 Port Panel

Port Details

The **Port Details** module lists the status parameters of each port. You can also configure the port status, rate/duplex, and flow control of each port, and view the port name, connection status, and actual rate/duplex of each port.

Port Details					
Port Name	Connection Status	Port Status	Actual Rate/Duplex	Configured Rate/Duplex	Flow Control
Ge1	Connected		100 Mbps/Full Duplex	Auto/Auto	
Ge2	Disconnected		--	Auto/Auto	
Ge3	Connected		100 Mbps/Full Duplex	Auto/Auto	
Ge4	Disconnected		--	Auto/Auto	
Ge5	Disconnected		--	Auto/Auto	
Ge6	Disconnected		--	Auto/Auto	

Figure 3-7 Port Details

Connection Status

The connection status of a port: **Connected** or **Disconnected**.

Port Status

Enable or disable a port. Ports are enabled by default.

Actual Rate/Duplex

The actual rate and duplex mode of a port.

Configured Rate/Duplex

The default value is **Auto/Auto**. You can select different combinations of rates and duplex modes as required.

Flow Control

Enabled by default. Flow control can effectively reduce the impact of large amounts of data on the network and maintain the stability of the network.

PoE Power

You can view the whole device PoE power and peak PoE power in last seven days of the switch. Click in the upper right corner of the module to go to the **PoE Management** page for PoE function configuration.



Figure 3-8 PoE Power

Note

PoE power display is only available for switches supporting PoE.

3.3 Network Status

Network Monitoring allows you to view the same-LAN network device information, MAC addresses learned by ports, port statistics, and cable status.

Find Network Devices

Network Device Discovery is a function that automatically detects transmission devices in the same LAN with the switch and displays information about these devices. Go to **Network Monitoring** → **Network Device Discovery**, and you can view the device IP address, type, model, and serial No. of the network device(s) found. You can also select a device and click in the **Operation** column to go to the web configuration page of the device.

IP Address	Device Type	Device Model	Serial No.	Operation
192.168.1.100 (LAN)	Switch	DS-387520P-B	L0849(000)	🔄
192.168.1.101	Switch	DS-387520P-B	F2343(000)	🔄
192.168.1.102	Switch	DS-387520P-B	F2343(000)	🔄
192.168.1.103	Switch	DS-387520P-B	J0434(000)	🔄
192.168.1.104	Switch	DS-387520P-B	J0434(000)	🔄
192.168.1.105	Switch	DS-387520P-B	J0434(000)	🔄
192.168.1.106	Switch	DS-387520P-B	F2343(000)	🔄

Figure 3-9 Network Device Discovery

Query Port MAC Address

You can query the MAC address(es) learned by each port. Go to **Network Monitoring** → **MAC Address**, select the desired port from the **Port** drop-down list, and click **Search**. The MAC address(es) learned by the port and type(s) of the MAC address(es) are displayed in the list below.

MAC Address	Type	Port
14:43:00:00:00:00	Dynamic	Gi1/5
20:45:00:00:00:00	Dynamic	Gi1/5
4c:48:00:00:00:00	Dynamic	Gi1/5
14:43:00:00:00:00	Dynamic	Gi1/5
14:43:00:00:00:00	Dynamic	Gi1/5
8c:34:00:00:00:00	Dynamic	Gi1/5
30:4b:00:00:00:00	Dynamic	Gi1/5
80:80:00:00:00:00	Dynamic	Gi1/5
50:41:00:00:00:00	Dynamic	Gi1/5
80:80:00:00:00:00	Dynamic	Gi1/5

Figure 3-10 Port MAC Address

View Port Statistics

You can monitor and collect statistics on the transmitted data of device ports. Go to **Network Monitoring** → **Port Statistics**, and you can view the current connection status of each port and the data transmitted by each port in the statistics list.

Port Name	Bytes Sent	Bytes Received	Sending Rate	Receiving Rate	Packets Sent	Packets Recv.	Peak Sending Rate	Peak Receiving Rate
Ge1	--	--	--	--	--	--	--	--
Ge2	--	--	--	--	--	--	--	--
Ge3	--	--	--	--	--	--	--	--
Ge4	--	--	--	--	--	--	--	--
Ge5	--	--	--	--	--	--	--	--
Ge6	--	--	--	--	--	--	--	--

Figure 3-11 Port Statistics

You can also perform the following operations:

- Clear port statistics: You can click **Clear All** to clear all the port statistics.
- Manually refresh port statistics: You can click  to manually refresh the port statistics.
- Auto refresh port statistics: You can set the interval for automatically refreshing port statistics: 30 seconds or 60 seconds.

Detect Cable Status

Cable Detection is a function that detects the statuses of Ethernet port cables, for example, to check whether there is a short circuit or an open circuit in the receiving or sending direction of a cable, and if any, to locate the faulty cable. Go to **Network Monitoring** → **Cable Detection**, select the desired port on the left port panel, and click **Detect** to view the detection result.



Figure 3-12 Cable Status Detection

4 Network Configuration

You can click  on the home page to check Hik-Connect connection status, or go to **System** → **Network Configuration** for network configuration, cloud platform configuration, and SADP configuration.

Network Configuration

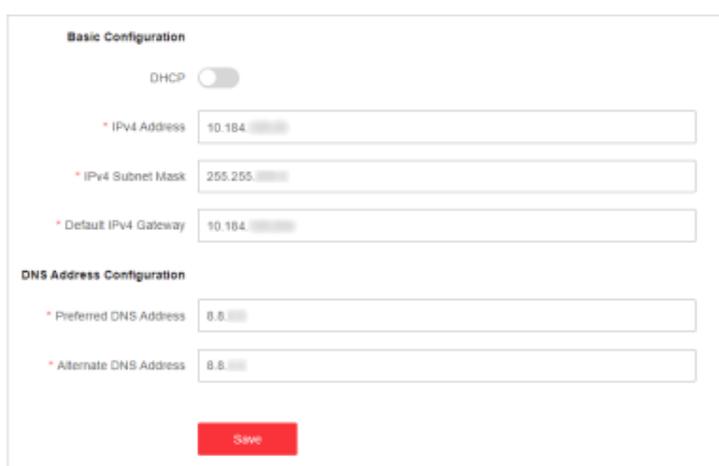


Figure 4-1 Network Configuration

Set the IPv4 address, IPv4 subnet mask, default IPv4 gateway, preferred DNS address, and alternate DNS address as required, or enable **DHCP** for automatic IP address assignment.

Cloud Platform Configuration

If the device is displayed as offline when you add it to Hik-Partner Pro, you need to modify the DNS server address and configure Hik-Connect parameters.

Go to **System** → **Network Configuration** → **Cloud Platform Configuration**, and ensure that Hik-Connect is enabled. You can also check the operation code, and bind the device to your cloud account on Hik-Partner Pro app.

Figure 4-2 Cloud Platform Configuration



Note

It takes several minutes for reconnecting to Hik-Connect service.

SADP Configuration

Figure 4-3 SADP Configuration

Enable **SADP Server** or **SADP Agent** as required.



Note

- After SADP server is enabled, devices supporting SADP can be searched and information about the devices is displayed.
- After SADP agent is enabled, query requests are sent to the LAN periodically (every minute) for network topology drawing.

5 Device Configuration

5.1 Port Configuration

5.1.1 Configure Port Attributes

The basic attributes can influence the working status of a port. Configure the parameters as required.

Steps

1. Go to **L2 Configuration** → **Port Attributes** .

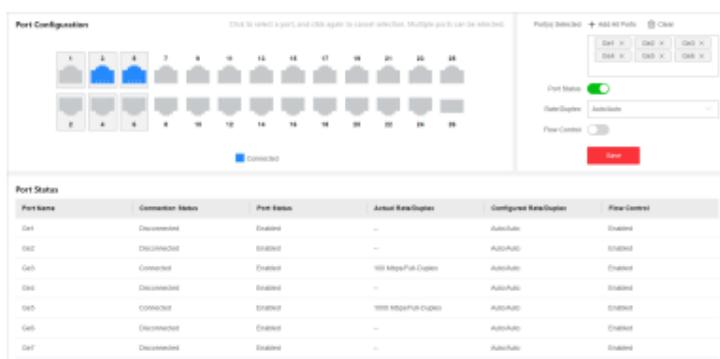


Figure 5-1 Configure Port Attributes

2. Select the desired port(s) and configure the parameters.

Port Status

Enable or disable the selected port(s). Once a port is disabled, no data will be transmitted on it.

Rate/Duplex

The data transmission speed of a port or the duplex mode of a port. The configurable rates or duplex modes of ports vary with device models.

Flow Control

Enable or disable flow control of a port. Enabling flow control can prevent data loss in data transmission.

3. Click **Save**.

4. **Optional:** View the port attributes in the port status list.

5.1.2 Configure Link Aggregation

Link aggregation is used to combine multiple physical links together to make a logical high-bandwidth data path, which provides a stronger and faster network connection.

Steps

1. Go to **L2 Configuration** → **Link Aggregation**.

2. Click **+Add**.

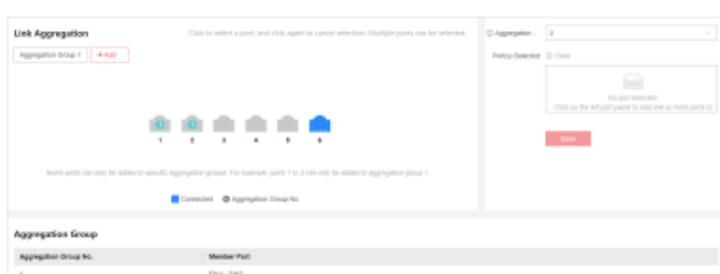


Figure 5-2 Configure Link Aggregation

3. Select at least two desired ports.



Note

- Only the selectable ports can be added to an aggregation group.
- 2 to 4 ports are allowed for each link aggregation group.
- Some ports can only be added to a specific aggregation group. For example, ports 1 to 4 can only be added to aggregation group 1. Please refer to the actual situation.
- The rate, duplex mode, flow control, and long-range mode configurations of ports in one aggregation group should be the same.

4. Set **Aggregation Group No.**



Note

The number of aggregation groups allowed varies.

5. Click **Save**.

6. **Optional:** Edit the aggregation group.

1) Click an existing aggregation group, for example,

Aggregation Group 1

2) Select the desired port(s) on the left port panel to add to the group, or deselect the desired port(s) on the right to delete from the group.

3) Click **Edit** to save the modification.

7. **Optional:** Delete the aggregation group.

1) Click an existing aggregation group, for example,

Aggregation Group 1

2) Click **Delete** on the right.

8. **Optional:** View the member ports of each aggregation group in the list below.

5.1.3 Configure Long-Range Mode

After the long-range mode is enabled for a port, the transmission distance of the port can reach 300 meters at a rate of 10 Mbps.

Steps

1. Go to **L2 Configuration** → **Long-Range Mode** .

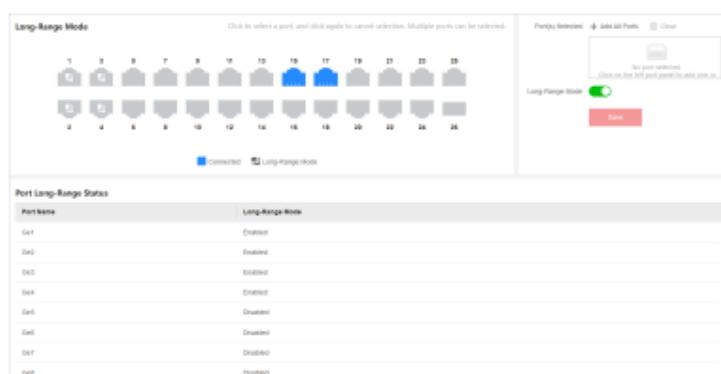


Figure 5-3 Configure Long-Range Mode

2. Select the desired port(s) on the left port panel.



Note

You can also click **+ Add All Ports** or **Clear** on the right to batch select or deselect all ports.

3. Enable or disable **Long-Range Mode** on the right as required.

4. Click **Save**.

5. **Optional:** View the long-range statuses of different ports in the **Port Long-Range Status** list.

5.1.4 Configure Port Isolation

Port isolation is a feature to add multiple ports to an isolation group so that ports in the same isolation group cannot communicate with each other. For example, by using port isolation function, you can achieve the goal of preventing PCs under different ports communicating with each other without configuring VLANs.

Steps

1. Go to **L2 Configuration → Port Isolation** .



Figure 5-4 Configure Port Isolation

2. Select the desired port(s) on the left port panel.



Note

You can also click **+ Add All Ports** or **Clear** on the right to batch select or deselect all ports.

3. Enable or disable **Port Isolation** on the right as required.

4. Click **Save**.

5. **Optional:** View the port isolation statuses of different ports in the **Port Isolation Status** list.

5.1.5 Configure Port Mirroring

Port mirroring is a feature in network switches that allows administrators to monitor traffic on one port (mirrored port) and replicate this data to another port (mirroring port) for analysis. This replication occurs in real-time, allowing an administrator to view a "mirror" or exact duplicate of the traffic moving on the mirrored port.

Steps

1. Go to **L2 Configuration → Port Mirroring** .



Figure 5-5 Configure Port Mirroring

2. Select the desired port(s) on the left port panel as the mirrored ports, and configure the parameters as required.



Note

You can also click **+ Add All Ports** or **Clear** on the right to batch select or deselect all ports.

Enable

Enable or disable port mirroring of the selected port(s).

Monitoring Port

Only one port can be set as the monitoring port (mirroring port).

Mirroring Direction

Ingress

The data received by the source port will be under monitoring.

Egress

The data sent by the source port will be under monitoring.

Egress and Ingress

Both the data received by and the data sent from the source port will be under monitoring.

3. Click **Save**.



Note

The latest configuration will overwrite the previous configuration.

4. **Optional**: View the mirroring statuses of different ports in the **Port Mirroring Status** list.

5.1.6 Configure High-Priority Port

High-priority ports are identified by a red area on the device front panel. In the case of uplink congestion, the data of ports in this area is preferentially transmitted.

Steps

1. Go to **Quality of Service** → **High-Priority Port** .

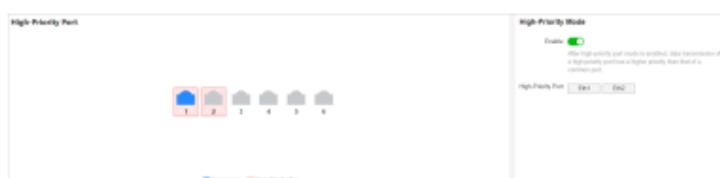


Figure 5-6 Configure High-Priority Port



Note

High-priority port configuration is only supported when the switch has high-priority ports.

2. In **High-Priority Mode**, toggle on **Enable** to batch enable high-priority ports.



Note

The number of high-priority ports varies with different device models. Please refer to the actual situation.

All high-priority ports of the switch are enabled, with a higher data transmission priority than common ports.

5.2 STP Configuration

Spanning Tree Protocol (STP) is a layer-2 link management protocol that provides path redundancy and prevents loops in a network topology. STP uses a spanning-tree algorithm to select one switch as the root of a spanning tree, and determines the network topology by transmitting Bridge Protocol Data Unit (BPDU) packets between devices, helping to create a stable network.

Steps

1. Go to **L2 Configuration → STP** .



Figure 5-7 STP Configuration

2. In **STP Configuration**, toggle on **Enable STP**.

3. Set STP parameters as required.

Table 5-1 STP Parameters

Parameter	Description
Bridge Priority	<ul style="list-style-type: none"> The value ranges from 0 to 61440, in an increment of 4096. The default value is 32,768. Valid values are 0, 4096, 8192, 12288, 16384, ..., and 61440. The smaller the value, the higher the bridge priority of a switch. A switch with higher bridge priority is more likely to become the root bridge.
Hello Time	The interval between each BPDU that is sent on a port, which is used for port link diagnosis. The value ranges from 1 to 10 seconds. The default value is 2 seconds.
Max. Aging Time	<p>The maximum length of time interval that a STP-enabled switch port saves its configuration BPDU information. The value ranges from 6 to 40 seconds. The default value is 20 seconds.</p> <p> Note</p> <p>The Max. aging time must meet the following conditions: $2 \times (\text{Hello Time} + 1) \leq \text{Max. Aging Time} \leq 2 \times (\text{Forwarding Delay} - 1)$</p>
Forwarding Delay	The time interval that is spent in the listening and learning

Parameter	Description
	state when the topology changes. The value ranges from 4 to 30 seconds. The default value is 15 seconds.

4. Click **Save**.

5. **Optional:** Click **Port Status** or **STP Status** to view the status of each port or the global status of STP settings.



Note

- The **Port Status** information includes the port name, path cost, port role, and port status.
- The **STP Status** information includes the bridge ID, root bridge ID, as well as hello time, Max. aging time, and forwarding delay of the root bridge.

5.3 LLDP Configuration

Link Layer Discovery Protocol (LLDP) is a layer 2 neighbor discovery protocol that allows devices to advertise device information to their directly connected peers/neighbors. With LLDP enabled, network devices can send LLDP data units (LLDPDUs) to inform other devices of their status. LLDP helps to draw network topology and detect improper configurations in a network.

Steps

1. Go to **L2 Configuration → LLDP**.
2. Enable or disable LLDP.



Figure 5-8 LLDP Configuration



Note

After LLDP is enabled, network devices can discover each other, facilitating network topology drawing.

3. **Optional:** View the local port(s), MAC address(es) of peer device(s), and peer port(s) in the **Neighbor Information** list.

5.4 VLAN Configuration

Virtual Local Area Networks (VLANs) separate an existing physical network into multiple logical networks. Thus, each VLAN creates its own broadcast domain. With VLANs configured on a switch, users in the same VLAN can communicate with each other, while users in different VLANs are isolated. In this way, different broadcast domains are isolated, enhancing network security.

5.4.1 Add VLAN

Steps

1. Click **VLAN Management** in the left navigation pane.

2. In **VLAN Configuration**, click **Edit**.

3. Click **Add**.



Figure 5-9 Add VLAN(s)

4. Select an adding mode.

- **Single**: Only one VLAN is added at a time.
- **Batch**: Multiple VLANs are added in a batch.

5. Set **VLAN ID**.

- **Single**: Enter a VLAN ID. The VLAN ID should be an integer between 1 to 4094.
- **Batch**: Enter the start VLAN ID and end VLAN ID. The VLAN ID should be an integer between 1 to 4094, and the end VLAN ID should be greater than the start VLAN ID.

Note

The maximum number of VLANs that can be added in a batch varies with different device models. Please refer to the actual situation.

6. Click **Save**.

7. **Optional**: Select the desired VLAN(s) and click **Delete** to delete a VLAN.

Note

The default VLAN 1 cannot be deleted.

5.4.2 Configure Port VLAN

Steps

1. Select the desired port(s) on the left port panel.

Note

- You can also click **+ Add All Ports** or **Clear** on the right to batch select or deselect all ports.
- VLAN configuration is not allowed for ports in an aggregation group.

2. Configure the port VLAN type.



Figure 5-10 Configure Port VLAN

- **ACCESS**: An ACCESS port can have only one VLAN configured on the interface, and it can carry traffic for only one VLAN, usually the default VLAN (VLAN 1). Select **Type** as **ACCESS**, and set **PVID**.

- **TRUNK:** A TRUNK port can have two or more VLANs configured on the interface, and it can carry traffic for several VLANs simultaneously. Select **Type** as **TRUNK**, set **PVID**, and enter **Accessible VLANs**.

3. Click **Save**.

4. **Optional:** View the VLAN configuration information of each port in the port VLAN details list.

Port Name	Type	PVID	Accessible VLANs
GE1	ACCESS	1	1
GE2	ACCESS	1	1
GE3	ACCESS	2	2
GE4	ACCESS	2	2
GE5	ACCESS	1	1
GE6	ACCESS	1	1

Figure 5-11 Port VLAN Details

5.5 PoE Management

Click **PoE Management** in the left navigation pane.

Port Name	PoE	Output Power (W)
GE1	Enabled	--
GE2	Enabled	--
GE3	Enabled	--
GE4	Enabled	--
GE5	Enabled	--
GE6	Enabled	--

Figure 5-12 PoE Management

PoE Watchdog

Enable PoE watchdog to auto-detect and restart IP cameras that do not respond.

Port PoE Configuration

Select the desired port(s) on the left port panel and enable PoE to supply power to the powered device(s) connected.

Note

You can click **+ Add All Ports** or **Clear** to batch select or deselect all ports.

PoE Status

View the PoE enabling status and output power of PoE ports in the **PoE Status** list.

6 System Management

6.1 Time Synchronization

Steps

1. Go to **System** → **Time Configuration** .

Figure 6-1 Time Synchronization

2. Set **Time Zone**.

3. Set **Time Sync Mode**.

- **Manual**: Click to manually set the date and time, or check **Sync. with Computer Time** to synchronize the device time.
- **Hik-Connect Server Time Sync**: Use the Hik-Connect server for automatic time calibration and synchronization.

4. Click **Save**.

6.2 System Maintenance

Go to **System** → **System Maintenance** to restart, upgrade, back up, or reset the device.

Restart Device

Figure 6-2 Device Restart

In **Restart**, click **Restart** to remotely restart the switch.

Note

You will enter the login page automatically after the device is restarted.

Upgrade Device

Upload an upgrade file to upgrade the switch.

Figure 6-3 Device Upgrade

1. In **Upgrade**, click to select an upgrade patch file.

2. Click **Upgrade**.

Note

- If upgrading failed or the device cannot function, please contact our technical support engineers.
- The device will restart automatically to enter the login page after upgrade is completed.

Back Up Device

Export the configuration file for local backup.



Figure 6-4 Device Backup

1. In **Backup**, click **Export** to export the configuration file containing device parameters.

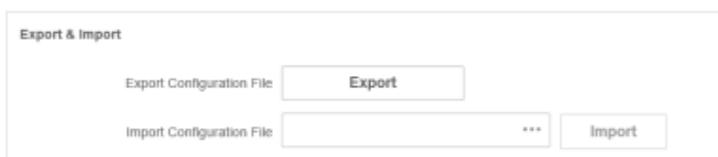


Figure 6-5 Export Device Parameters

2. Set a password and confirm the password for file encryption.



Note

Remember the password as it is required when importing device parameters.

3. Click **OK**.

Reset Device



Figure 6-6 Device Reset

- **Restore to Defaults:** Click **Restore** to restore all parameters except network parameters and user parameters to factory defaults.
- **Restore All to Defaults:** Click **Restore All** to restore all parameters to factory defaults.



Note

- The device parameters cannot be recovered once being restored to factory defaults.
- The device will restart automatically after being restored to factory defaults.

- **Import Device Parameters:** Click  to select the configuration file containing device parameters, click **Import**, enter the password for file decryption, and then click **OK** to import the configuration file for fast device configuration.



Note

The device will restart automatically to enter the login page after the configuration file is imported.