



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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Chapter 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.

Chapter 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**.

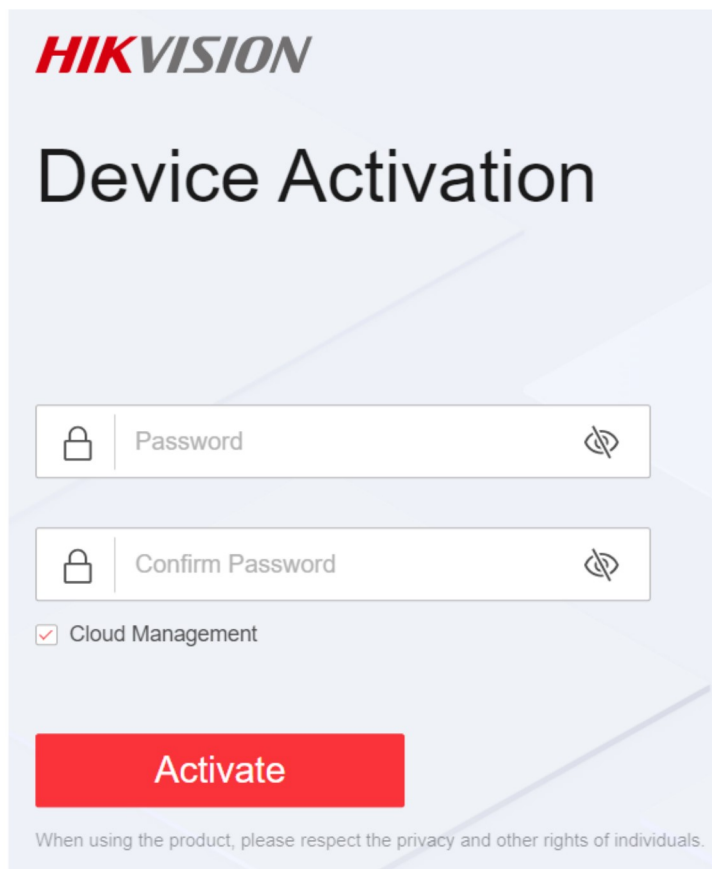
The image shows a web interface for HIKVISION Device Activation. At the top is the HIKVISION logo. Below it is the title "Device Activation". There are two password input fields, each with a lock icon on the left and a "show/hide" icon on the right. The first field is labeled "Password" and the second is labeled "Confirm Password". Below these fields is a checkbox labeled "Cloud Management" which is checked. At the bottom is a large red button labeled "Activate". At the very bottom, there is a small line of text: "When using the product, please respect the privacy and other rights of individuals."

Figure 2-1 Activate Device

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.
- The password cannot contain user name, '123', or 'admin' (case-insensitive), 4 or more consecutively increasing or decreasing digits (such as '1234' and '4321'), or 4 or more identical characters (such as '1111' and 'aaaa').
- The password cannot be a common risky password.

3. Optional: Check Cloud Management.

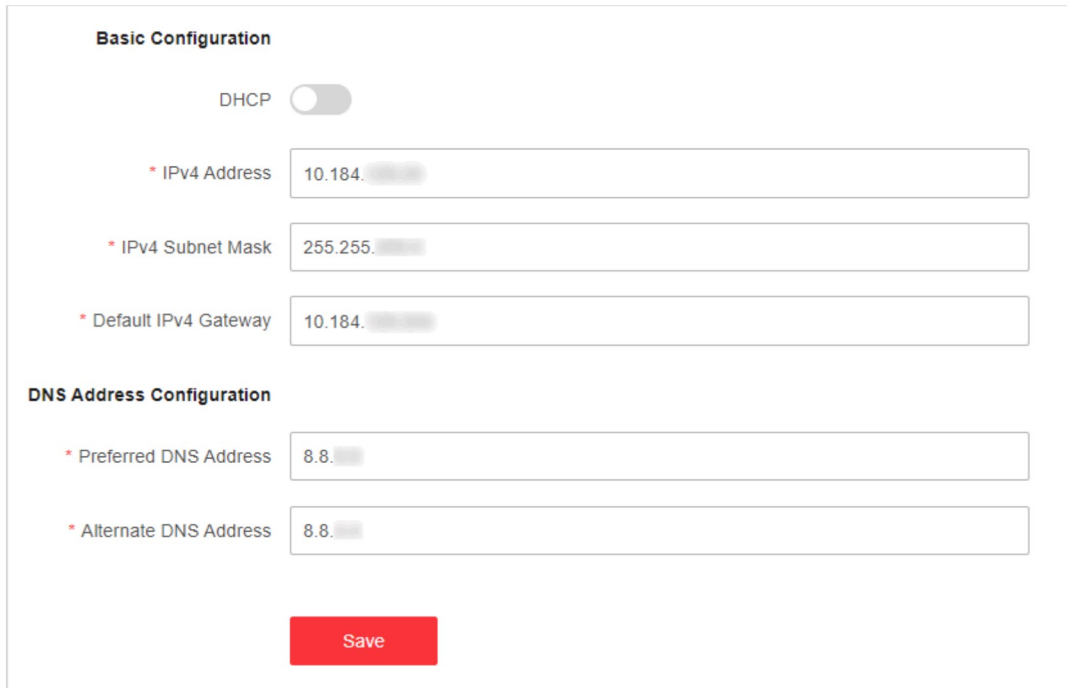
The Hik-Connect service is enabled.

4. Click **OK**.

The network configuration page is displayed.

5. Optional: Modify the network configurations.

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



The screenshot displays the 'Network Configuration' web interface. It is divided into two main sections: 'Basic Configuration' and 'DNS Address Configuration'. In the 'Basic Configuration' section, there is a 'DHCP' toggle switch which is currently turned off. Below this, there are three input fields: 'IPv4 Address' with the value '10.184.', 'IPv4 Subnet Mask' with the value '255.255.', and 'Default IPv4 Gateway' with the value '10.184.'. The 'DNS Address Configuration' section contains two input fields: 'Preferred DNS Address' and 'Alternate DNS Address', both with the value '8.8.'. At the bottom of the form is a red 'Save' button.

Figure 2-2 Modify Network Parameters

- 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.

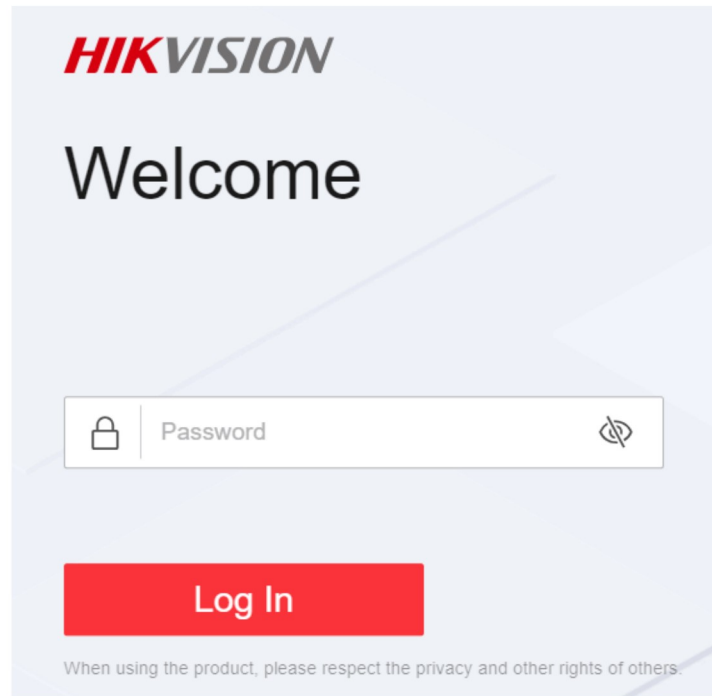


Figure 2-3 Log In

Chapter 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 number, IP and MAC addresses, as well as CPU and memory usage of the switch in the lower right corner of the **Overview** page.



Figure 3-1 View 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.

DS-3E1106P-EI/M 

Figure 3-2 Edit Device Name

System Uptime

You can also view the device's system uptime in the upper right corner of the **Overview** page.

System Uptime: 0 Week(s) 1 Day(s) 21 h 37 min 55 sec

Figure 3-3 View System Uptime

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.

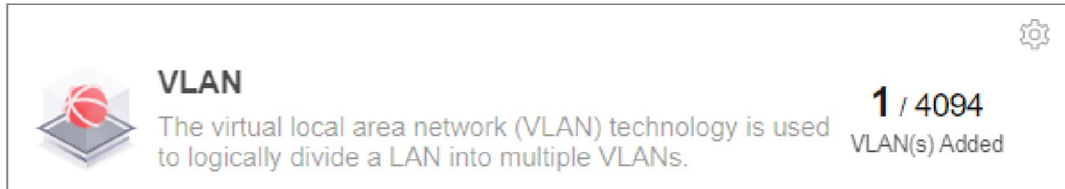


Figure 3-4 View Number of VLANs Added

Note

You can also view the maximum number of VLANs allowed by the device, for example, 4094 in the figure above. The maximum number of VLANs allowed by a device varies with device models.

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.

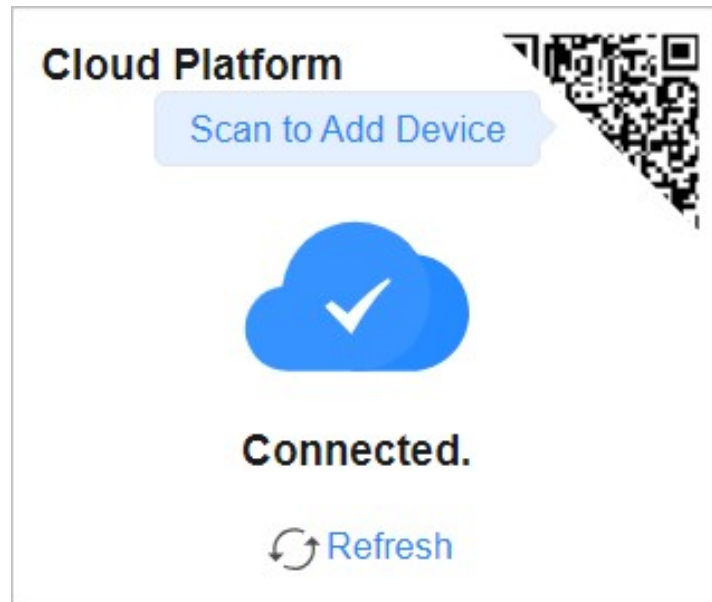


Figure 3-5 View Cloud Platform Connection Status (Connected)

- 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.

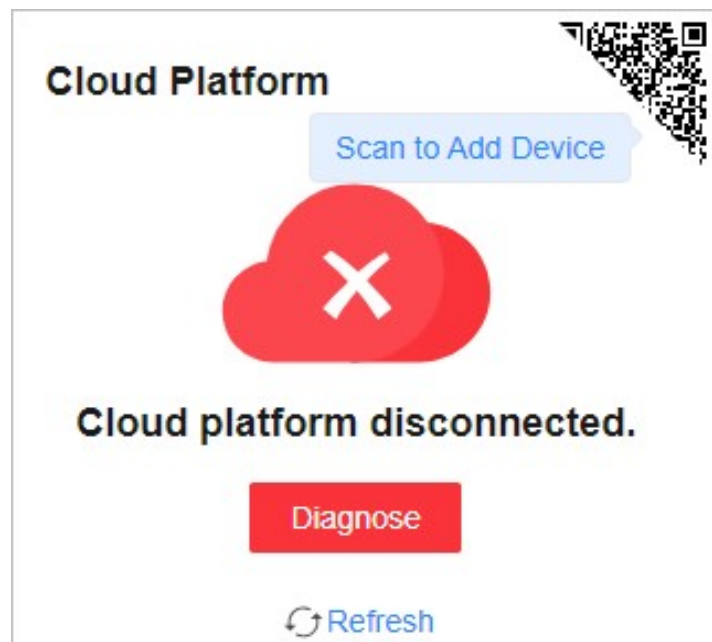


Figure 3-6 View Cloud Platform Connection Status (Disconnected)

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.

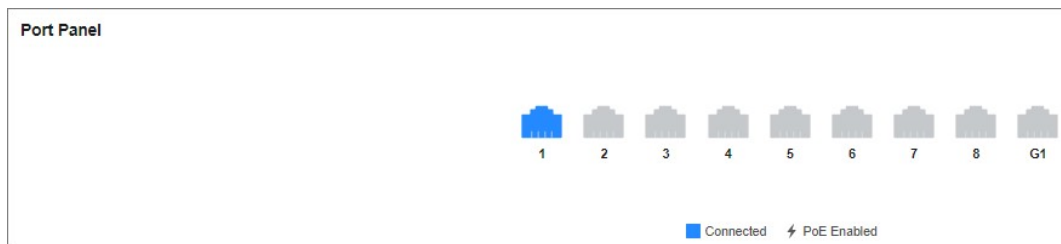


Figure 3-7 View Port Panel

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 Up	Actual Rate/Duplex	Configured Rate/Duplex	Flow Control
Eth1	Connected	☒	100 Mbps/Full-Duplex	Auto/Auto	☒
Eth2	Disconnected	☒	--	Auto/Auto	☒
Eth3	Disconnected	☒	--	Auto/Auto	☒
Eth4	Disconnected	☒	--	Auto/Auto	☒
Eth5	Disconnected	☒	--	Auto/Auto	☒
Eth6	Disconnected	☒	--	Auto/Auto	☒

Figure 3-8 View Port Details

Connection Status

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

Port Up

Enable a port (port up) or disable a port (port down). By default, a port is in the up state.

Actual Rate/Duplex

The actual rate and duplex mode of a port.

Configured Rate/Duplex

Configure the rate and duplex mode of a port. The default value is **Auto/Auto**. You can select different combinations of rates and duplex modes as required.

Flow Control

Enable or disable flow control of a port. By default, flow control is enabled. Enabling 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 3-9 View 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 Number	Operation
10.13.1.1 (Local)	Switch	DS-3E1309P-E1M	AV	
10.13.1.2	Switch	DS-3E1326P-E1M	FC	
10.13.1.3	Switch	DS-3E1528P-S1-24P4F	FF	
10.13.1.4	Switch		CR	
10.13.1.5	Switch		FE	
10.13.1.6	Switch		FI	
10.13.1.7	Switch	DS-3E1528P-S	AK	
10.13.1.8	Switch		FE	

Figure 3-10 Find Network Devices

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.

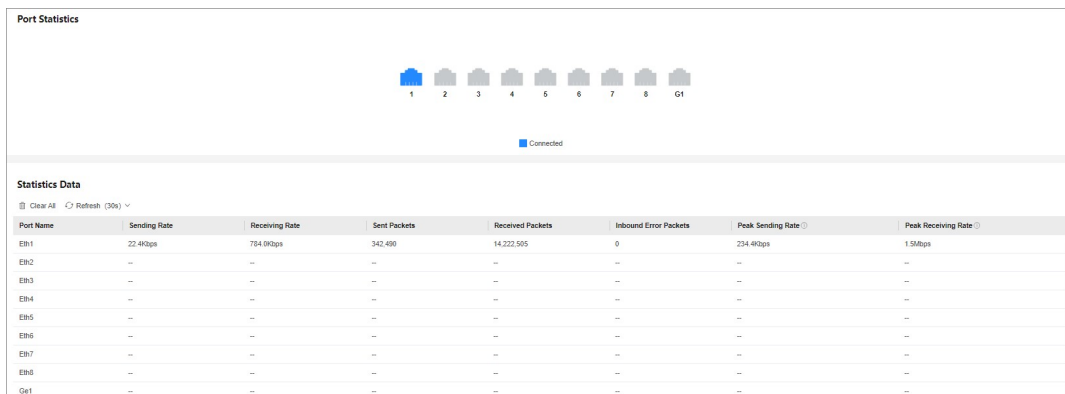


MAC Address	Type	Port
e0:ca:...	Dynamic	Eb1
1c:1b:...	Dynamic	Eb1
04:03:...	Dynamic	Eb1
1c:5e:...	Dynamic	Eb1
98:f1:...	Dynamic	Eb1
b8:3a:...	Dynamic	Eb1

Figure 3-11 Query Port MAC Addresses

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	Sending Rate	Receiving Rate	Sent Packets	Received Packets	Inbound Error Packets	Peak Sending Rate	Peak Receiving Rate
Eb1	22.4Kbps	784.0Kbps	342,480	14,222,505	0	234.4Kbps	1.5Mbps
Eb2	...	...	...	...	...	...	...
Eb3	...	...	...	...	...	...	...
Eb4	...	...	...	...	...	...	...
Eb5	...	...	...	...	...	...	...
Eb6	...	...	...	...	...	...	...
Eb7	...	...	...	...	...	...	...
Eb8	...	...	...	...	...	...	...
G1	...	...	...	...	...	...	...

Figure 3-12 View 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.

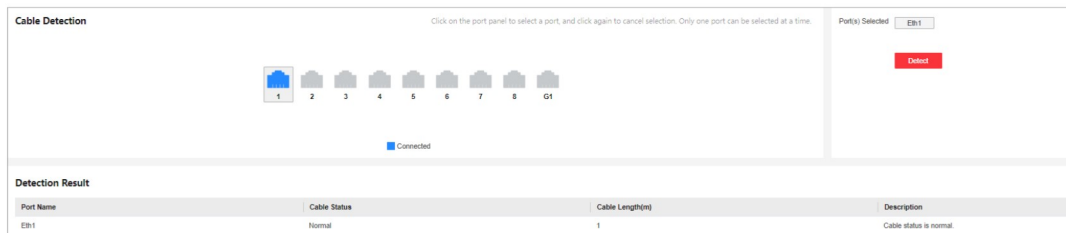


Figure 3-13 Detect Cable Status

Diagnose Network

Ping is a function that helps to diagnose network connectivity and quickly locate network faults.

1. Click **Network Monitoring** → **Ping**.

* IPv4 Address: 10.13.

Ping

Figure 3-14 Ping

2. Enter a network server address in the **IPv4 address** field.
3. Click **Ping**.

Note

The network diagnosis result is displayed in the **Ping Result** area.

Chapter 4 Device Configuration

4.1 Port Configuration

4.1.1 Configure Port Attributes

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

Steps

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

Port Configuration

Click on the port panel to select a port, and click again to cancel selection. Multiple ports can be selected at a time.

Port(s) Selected: + Add All - Clear All

E01 x

Port Up: ☒

Duplex Mode: ☐ Half-Duplex ☐ Full-Duplex ☒ Auto

Rate (Mbps): Auto

Flow Control: ☒

Save

Port Name	Connection Status	Up/Down Status	Actual Rate/Duplex	Configured Rate/Duplex	Flow Control
E01	Connected	Up	100 Mbps/Full-Duplex	Auto/Auto	Enabled
E02	Disconnected	Up	--	Auto/Auto	Enabled
E03	Disconnected	Up	--	Auto/Auto	Enabled
E04	Disconnected	Up	--	Auto/Auto	Enabled
E05	Disconnected	Up	--	Auto/Auto	Enabled
E06	Disconnected	Up	--	Auto/Auto	Enabled
E07	Disconnected	Up	--	Auto/Auto	Enabled

Figure 4-1 Configure Port Attributes

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

Port Up

Enable or disable the selected port(s). If a port is enabled, it is in the up state; if a port is disabled, it is in the down state. No data will be transmitted on a "down" port.

Duplex Mode

The duplex mode of a port. The configurable duplex modes of ports include **Half-Duplex**, **Full-Duplex**, and **Auto**, which may vary with device models.

Rate (Mbps)

The data transmission speed of a port of a port. The configurable rates of ports include **10M**, **100M**, **1000M**, and **Auto**, which may 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.

4.1.2 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**.

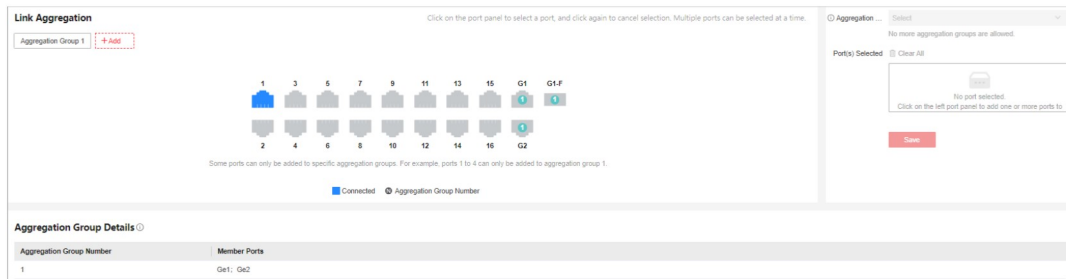


Figure 4-2 Configure Link Aggregation

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. Please refer to the actual situation.
- The rate, duplex mode, flow control, long-range mode, and VLAN configurations of ports in one aggregation group should be the same.

4. Set **Aggregation Group Number**.

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.

4.1.3 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 **Security → Port Isolation**.

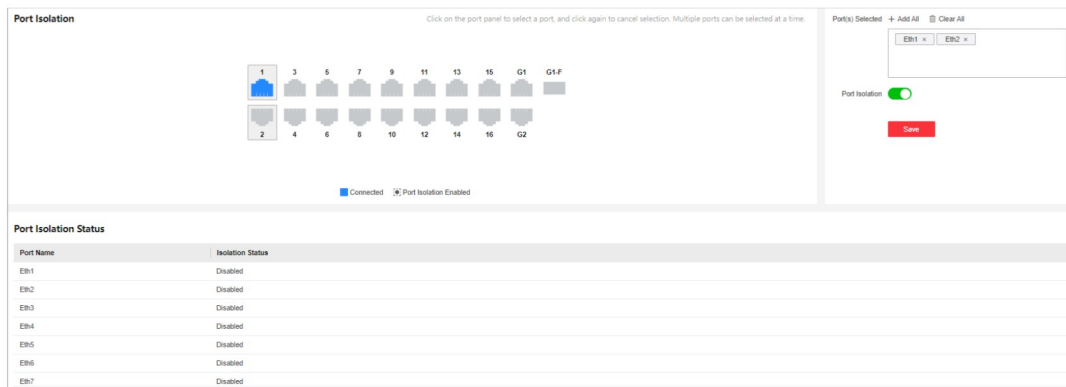


Figure 4-3 Configure Port Isolation

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

Note

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

3. Enable or disable **Port Isolation** as required.
4. Click **Save**.
5. **Optional:** View the port isolation status of each port in the **Port Isolation Status** list.

4.1.4 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**.

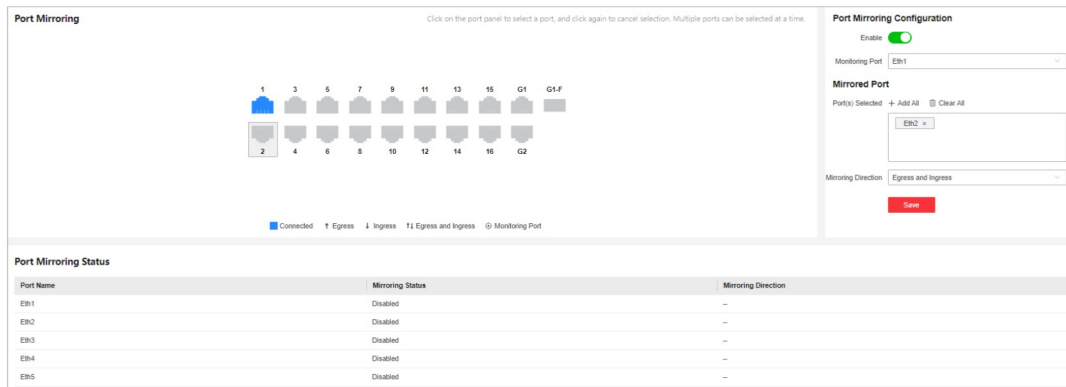


Figure 4-4 Configure Port Mirroring

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

Note

You can also click  or  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 status of each port in the **Port Mirroring Status** list.

4.1.5 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**.

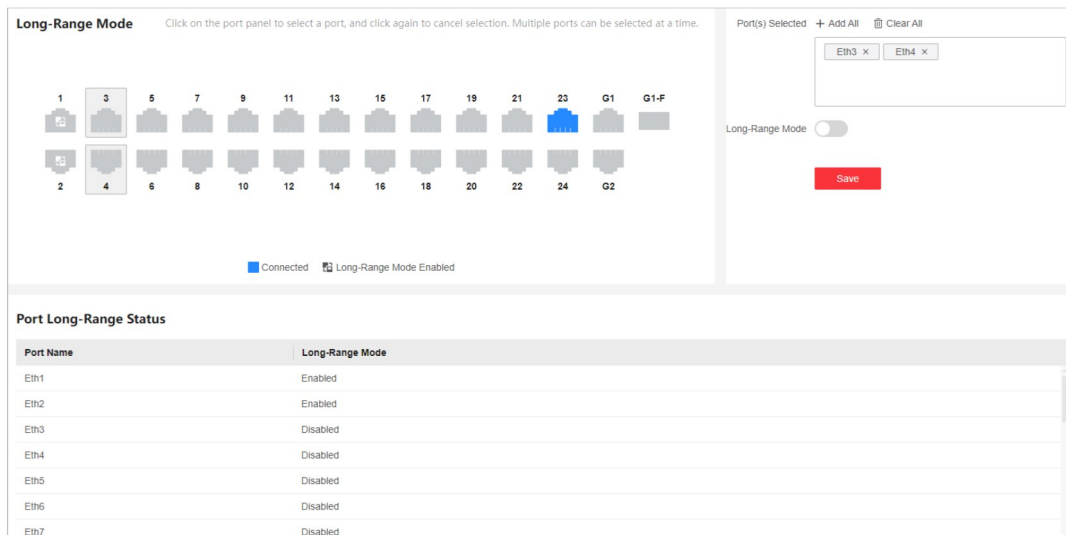


Figure 4-5 Configure Long-Range Mode

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



Note

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

3. Enable or disable **Long-Range Mode** as required.
4. Click **Save**.
5. **Optional:** View the long-range status of each port in the **Port Long-Range Status** list.

4.1.6 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 **Service Quality → High-Priority**.



Note

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

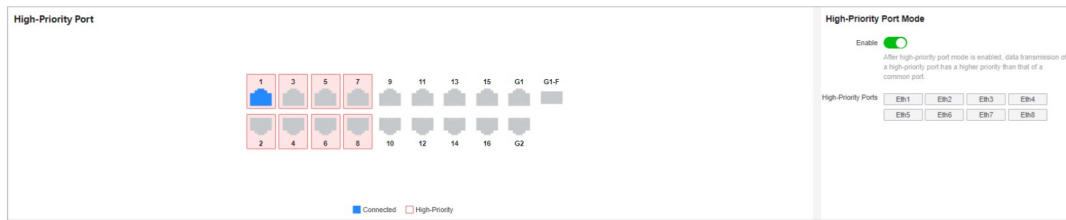


Figure 4-6 Configure High-Priority Port

2. In **High-Priority Port 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.

4.2 PoE Configuration

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

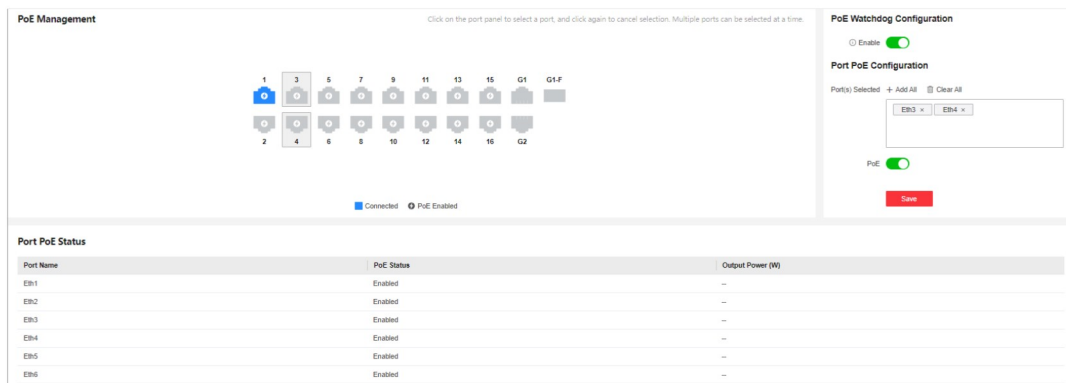


Figure 4-7 Configure PoE

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 port panel and enable **PoE** to supply power to the powered device(s) connected to the port(s).

Note

You can click  or  to batch select or deselect all ports.

PoE Status

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

4.3 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.

4.3.1 Add VLAN

Steps

1. Click **VLAN Management** in the left navigation pane.
2. In **Global VLAN Configuration**, click **Edit**.
3. Click **Add**.



Figure 4-8 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.

Note

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

5. Set **VLAN ID**.
 - **Single**: Enter a VLAN ID.
 - **Batch**: Enter the start VLAN ID and end VLAN ID.

Note

- The VLAN ID should be an integer between 1 and the maximum number of VLANs allowed by the device. For example, if the maximum number of VLANs allowed is 4094, the VLAN ID should be integer between 1 and 4094.
- The end VLAN ID should be greater than the start VLAN ID.
- The number of VLANs to be batch added should be no more than the maximum number of VLANs that can be added in a batch. For example, in the case that the maximum number of VLANs that can be added in a batch is 128, if you set the start VLAN ID to 1, the end ID cannot be greater than 128.

6. Click **Save**.

7. **Optional:** Select the desired VLAN(s) and click **Delete** to delete one or more VLANs.

Note

The default VLAN 1 cannot be deleted.

4.3.2 Configure Port VLAN

Steps

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

Note

- You can also click **+ Add All** or **Clear All** 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.

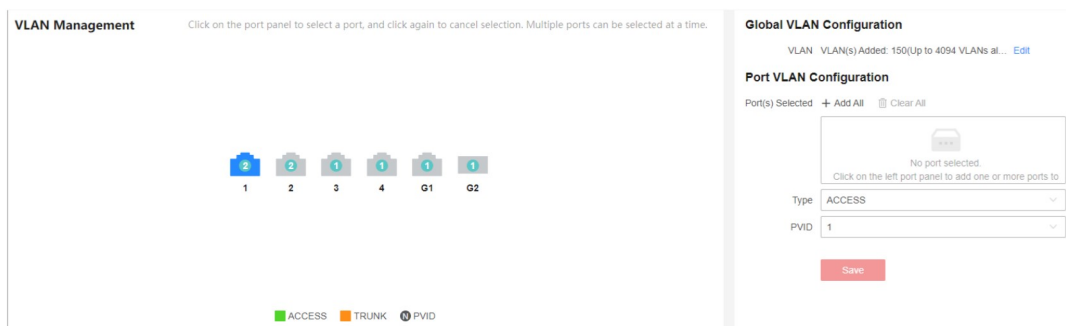


Figure 4-9 Configure Port VLAN

- **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
Eth1	ACCESS	1	1
Eth2	ACCESS	1	1
Eth3	ACCESS	2	2
Eth4	ACCESS	2	2
Eth5	ACCESS	1	1
Eth6	ACCESS	1	1

Figure 4-10 Port VLAN Details

4.4 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**.

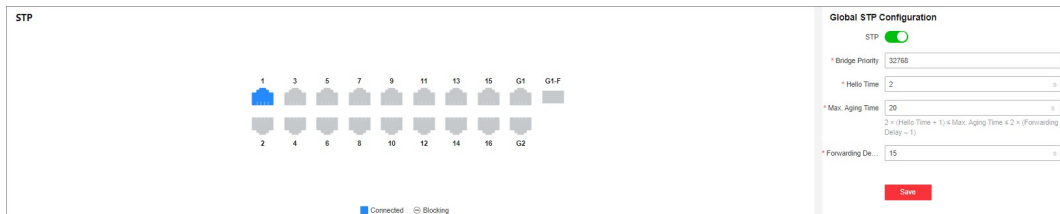


Figure 4-11 Configure STP

2. In **Global STP Configuration**, enable **STP**.

3. Set STP parameters as required.

Table 4-1 STP Parameters

Parameter	Description
Bridge Priority	- The value ranges from 0 to 61440, in an increment of 4096. The default value is 32768. 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	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.  Note The Max. aging time must meet the following conditions: $2 \times (\text{Hello Time} + 1) \leq \text{Max. Aging Time} \leq 2 \times (\text{Forwarding Delay} - 1)$
Forwarding Delay	The time interval that is spent in the listening and learning 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 STP status of each port or global STP configuration.

 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.
-

4.5 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

- Go to **L2 Configuration → LLDP**.
- Enable or disable LLDP.

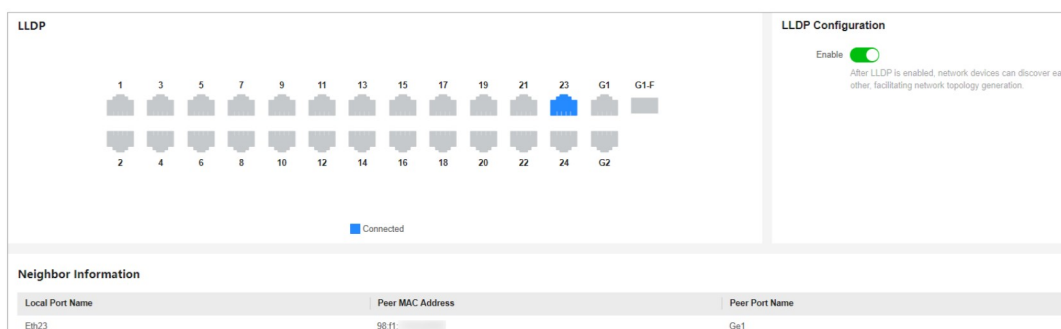


Figure 4-12 Configure LLDP



Note

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

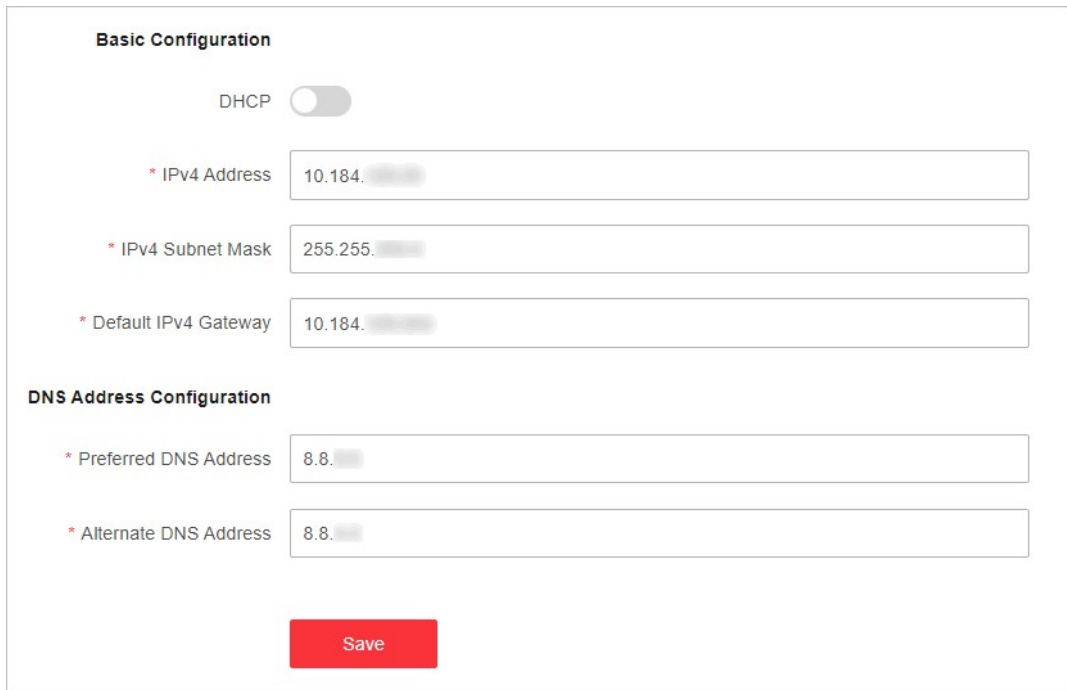
- Optional:** View the local port(s), MAC address(es) of peer device(s), and peer port(s) in the **Neighbor Information** list.

Chapter 5 System Management

5.1 Network Configuration

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

Network Configuration



Basic Configuration

DHCP ☐

* IPv4 Address 10.184.

* IPv4 Subnet Mask 255.255.

* Default IPv4 Gateway 10.184.

DNS Address Configuration

* Preferred DNS Address 8.8.

* Alternate DNS Address 8.8.

Save

Figure 5-1 Configure Network

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 Management → 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.

The screenshot displays the 'Cloud Platform' configuration page. At the top, there is an 'Enable' toggle switch that is turned on (green). Below this, the 'Server Address' is set to 'litedev.hik-connect.com', with a 'Customize' checkbox to its right. The 'Network Connection Status' is shown as 'Online' with a green checkmark and a 'Refresh' link. The 'Operation Code' field contains six asterisks. A red 'Save' button is positioned below these fields. The section is titled 'Account Binding Settings'. Under this, the 'Account Status' is 'Cloud account bound.' with a green checkmark. A note states: 'If required, unbind the cloud account on Hik-Partner Pro app.' Below this, the 'Account Binding Settings' section is expanded, showing 'Binding via QR Code'. It includes instructions to 'Scan the device QR code via Hik-Partner Pro app to bind your cloud account.' and a 'Device QR Code' section with a 'Click to View' button.

Figure 5-2 Configure Cloud Platform

Note

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

SADP Configuration

The screenshot shows the 'SADP Configuration' page. It features two toggle switches: 'SADP Server' which is turned on (green), and 'SADP Agent' which is turned off (grey). A red 'Save' button is located at the bottom right of the configuration area.

Figure 5-3 Configure SADP

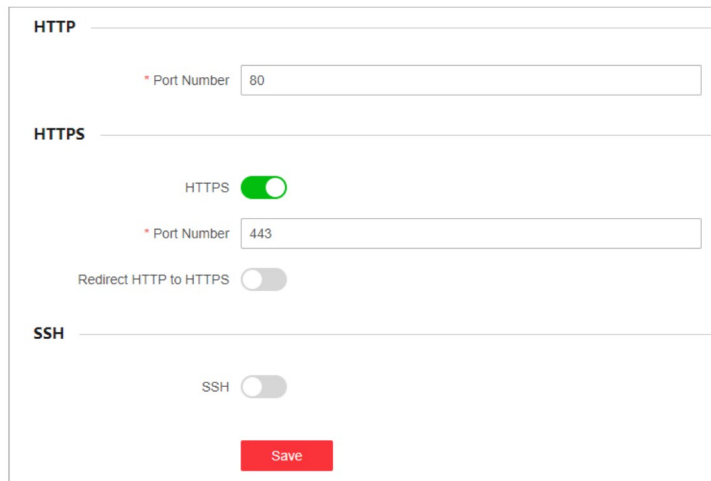
Enable **SADP Server** or **SADP Agent** as required.

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.
-

Remote Management

Go to **System Management** → **Network Configuration** → **Remote Management** for remote device management via HTTP or HTTPS.



The screenshot shows a web interface for configuring remote management. It is divided into three main sections: HTTP, HTTPS, and SSH. In the HTTP section, there is a 'Port Number' field with the value 80. The HTTPS section contains an 'HTTPS' toggle switch that is currently turned on (green), a 'Port Number' field with the value 443, and a 'Redirect HTTP to HTTPS' toggle switch that is turned off (grey). The SSH section has an 'SSH' toggle switch that is turned off (grey). At the bottom of the form is a red 'Save' button.

Figure 5-4 Manage Device Remotely

- **HTTP:** Set **Port Number** and click **Save**.

Note

The HTTP port number should be an integer between 2000 and 65535, or 80 by default.

- **HTTPS:** Set the parameters as required and click **Save**.

HTTPS

Enable or disable HTTPS.

Port Number

If HTTPS is enabled, set the HTTPS port number.

Note

The HTTPS port number should be an integer between 2000 to 65535, or 443 by default.

Redirect HTTP to HTTPS

Enable or disable **Redirect HTTP to HTTPS**.

Note

If **Redirect HTTP to HTTPS** is enabled, traffic accessed through port 80 will be automatically redirected to port 443.

- **SSH:** SSH is used for fault locating by technical support, and is not available to users.

5.2 Time Synchronization

Steps

1. Go to **System Management → Time Configuration**.
2. Set **Time Zone**.
3. Set **Time Sync Mode**.
 - **Manually:** Manually set the date and time, or check **Sync with Computer Time** to synchronize the system date and time.

The screenshot shows the 'System Date and Time' configuration page. At the top, it displays the current system date and time: '2024-06-21 07:12:45'. Below this, there is a 'Time Zone' dropdown menu set to '(UTC+00:00) Dublin, Edinburgh, Lisbon, London'. The 'Time Sync Mode' section has three radio buttons: 'Manually' (which is selected), 'With NTP Server', and 'With Hik-Connect Server'. Under the 'Manually' mode, there is a 'Set Date and Time' text input field containing '2024-06-21 07:10:48' and a checkbox labeled 'Sync with Computer Time' which is currently unchecked. A red 'Save' button is located at the bottom center of the form.

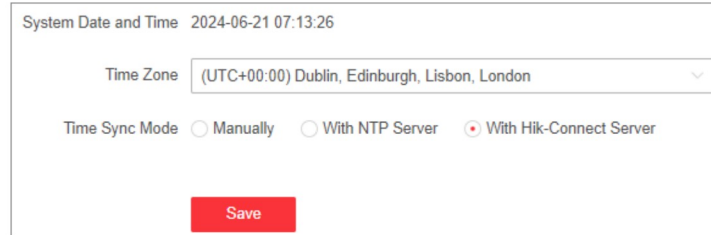
Figure 5-5 Configure Time Manually

- **With NTP Server:** Enter the NTP server address, port number, and time sync interval for automatic time synchronization.

The screenshot shows the 'System Date and Time' configuration page with 'With NTP Server' selected. The system date and time at the top is '2024-06-21 07:11:08'. The 'Time Zone' dropdown is set to '(UTC+00:00) Dublin, Edinburgh, Lisbon, London'. In the 'Time Sync Mode' section, the 'With NTP Server' radio button is selected. Below this, there are three required fields: '* Server Address' with the value 'time.windows.com', '* Port Number' with the value '123', and '* Time Sync Interval' with the value '60' and a 'min' unit indicator. A red 'Save' button is at the bottom center.

Figure 5-6 Configure Time with NTP Server

- **With Hik-Connect Server:** Use the Hik-Connect server for automatic time calibration and synchronization. You do not need to configure any parameters.



System Date and Time 2024-06-21 07:13:26

Time Zone (UTC+00:00) Dublin, Edinburgh, Lisbon, London

Time Sync Mode ☐ Manually ☐ With NTP Server ☒ With Hik-Connect Server

Save

Figure 5-7 Configure Time with Hik-Connect Server

4. Click **Save**.

5.3 System Maintenance

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

Restart Device



Restart

Restart Device Restart

Figure 5-8 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.



Upgrade

i The upgrade process takes 1 to 10 minutes. Do not power off the device. After the upgrade, the device will automatically restart.

Current Version V3.0.5 build 240620

Upgrade File

Figure 5-9 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 5-10 Back Up

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

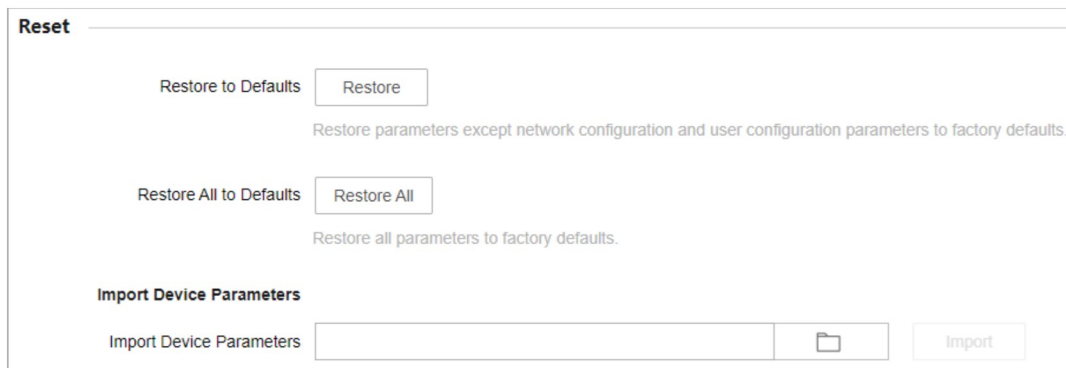


Figure 5-11 Reset

- **Restore to Defaults:** Click **Restore** to restore parameters except network configuration and user configuration 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.

5.4 Log Management

System operation logs can be searched and exported for backup.

Steps

1. Go to **System Management** → **System Maintenance** → **Log Management**.

Major Type		Subtype		Date and Time			Search	Export
All		All		2000-01-01 00:00:00	-	2024-06-21 23:59:59		
No.	Operation Time	Major Type	Subtype	Remote Operator	Remote Host IP Address	Description		
01	2024-06-21 16:53:55	Operation	Remote User Login	admin	10.184	(HTTP)		
02	2024-06-21 15:21:47	Operation	Remote User Login	admin	10.184	(HTTP)		
03	2024-06-21 14:52:21	Operation	Remote User Login	admin	10.13	(HTTP)		
04	2024-06-21 14:51:20	Operation	Remote User Login	admin	10.9	(HTTP)		
05	2024-06-21 14:45:58	Operation	Remote User Login	admin	10.9	(HTTP)		
06	2024-06-21 14:45:08	Operation	Remote User Login	admin	10.9	(HTTP)		
07	2024-06-21 14:42:22	Operation	Remote User Login	admin	10.9	(HTTP)		
08	2024-06-21 06:36:52	Operation	Remote User Login	admin	10.13	(HTTP)		
09	2024-06-21 06:36:24	Event	Port Link Up	None	None	(Eth2)		
10	2024-06-21 06:36:19	Event	Port Link Down	None	None	(Eth1)		

Figure 5-12 Manage Logs

2. Set search conditions, including **Major Type**, **Subtype**, and **Date and Time**.
3. Click **Search**.



Note

A maximum of 1024 search results can be displayed. Please narrow down the search scope if there are too many search results.

4. **Optional:** Click **Export** to export all the search results.



Note

Logs can be exported as a TXT file. A prompt will pop up after logs are exported successfully.

