

## **100 Mbps PoE Switch Client**

**User Manual** 

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### **FCC Information**

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

### **EU Conformity Statement**



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



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2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <u>http://www.recyclethis.info</u>.

### Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

## Preface

## **Applicable Models**

This manual is applicable to DS-3E13XXP-SI series switches.

## **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.
<b>A</b> Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
<b>i</b> Note	Provides additional information to emphasize or supplement important points of the main text.

## Safety Instruction

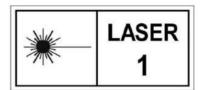


- This is a class A product and may cause radio interference in which case the user may be required to take adequate measures.
- Ensure that your devices powered via the PoE port have their shells protected and fire-proofed, because the switches are not compliant with the Limited Power Source (LPS) standard.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The socket-outlet shall be installed near the device and shall be easily accessible.
- The device must be connected to an earthed mains socket-outlet.
- Install the device according to the instructions in this manual.
- *f* indicates hazardous live and the external wiring connected to the terminals requires installation by an instructed person.
- Keep body parts away from fan blades. Disconnect the power source during servicing.
- Never place the device in an unstable location. The device may fall, causing serious personal injury or death.
- This device is not suitable for use in locations where children are likely to be present.

- CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
- Improper replacement of the battery with an incorrect type may defeat a safeguard (for example, in the case of some lithium battery types).
- Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
- Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas. Dispose of used batteries according to the instructions.

## Caution

- CAUTION: Double pole/Neutral fusing. After operation of the fuse, parts of the device that remain energized might represent a hazard during servicing.
- The device has been designed, when required, modified for connection to an IT power distribution system.
- This device is suitable for mounting on concrete or other non-combustible surface only.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the device on a bed, sofa, rug or other similar surface.
- No naked flame sources, such as lighted candles, should be placed on the device.
- The device shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the device.
- Burned fingers when handling the cover area of the device. Wait one-half hour after switching off before handling the parts.
- CLASS 1 LASER PRODUCT



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## **Chapter 1 Product Introduction**

DS-3E13XXP-SI series switches (hereinafter referred to as "the device") are layer 2 PoE switches, providing advanced PoE power supply technology on the basis of high-performance access. The switches support client management, network topology management, link aggregation, port management and so on. The switches are suitable for small-scale LAN device access.

## **Chapter 2 Device Management**

The device can be configured and managed through iVMS-4200 software, mainly including network parameter configuration, port configuration, link aggregation configuration, network topology display and so on.

### **i**Note

- This chapter will briefly introduce the device management through iVMS-4200 software. For other functions, please refer to *User Manual of iVMS-4200 Software*.
- All pictures in this manual are for illustration only, and the specific interface is subject to the actual interface.

## 2.1 Activating Devices

For the inactive devices, you are required to create a password to activate them before they can be added to the software and work properly.

#### **Before You Start**

Make sure the device to be activated is connected to the network and is in the same subnet with the PC running the client.

#### Steps

## **i**Note

This function should be supported by the device.

- 1. Enter the Device Management page.
- 2. Click Device tab on the top of the right panel.
- **3.** Click **Online Device** to show the online device area at the bottom of the page.

The searched online devices are displayed in the list.

4. Check the device status (shown on Security Level column) and select an inactive device.



Figure 2-1 Online Inactive Device

- 5. Click Activate to open the Activation dialog.
- **6.** Create a password in the password field, and confirm the password.

## 

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

7. Click OK to activate the device.

## 2.2 Adding Devices

The client provides various device adding modes including IP/domain, IP segment, cloud P2P, ISUP protocol, and HiDDNS. The client also supports importing multiple devices in a batch when there are large amount of devices to be added. The section only introduces one mode, namely, adding a detected online device.

#### Steps

- 1. Enter the Device Management module.
- 2. Click Device tab on the top of the right panel.
- 3. Click Online Device to show the online device area.

The searched online devices are displayed in the list.

**4.** Select an online device in the **Online Device** area, and click **Add** to open the device adding window.

## **i**Note

For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, refer to *Activating Devices*.

#### 5. Enter the required information.

#### Name

Enter a descriptive name for the device.

#### **IP Address**

Enter the device's IP address. The IP address of the device is obtained automatically in this adding mode.

#### Port

You can customize the port number. The port number of the device is obtained automatically in this adding mode.

#### **User Name**

By default, the user name is *admin*.

#### Password

Enter the device password.

## 

The password strength of the device can be automatically checked. We highly recommend you change the password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you change your password regularly, especially in the high security system, changing the password monthly or weekly can better protect your product.

Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

- **6.** Check **Synchronize Time** to synchronize the device time with the PC running the client after adding the device to the client.
- 7. Click Add.

## **Chapter 3 Device Status**

In the **Device Management**  $\rightarrow$  **Device** interface, click  $\equiv$  to view the device status, port status, PoE port status, and port statistics.

Device Status		×
Device	Run Time 2 d 23 h :	L2 min
Device Status		
Port Status	Device Usage	
Port Statistics	Memory Usage 30%	
PoE Port Status	CPU Usage 30%	
	PoE Power	
	Peak Value of PoE Power - 0.0W/225.0W(Last 7 Days)	
	Device Panel Status	
	🚰 RJ45 Port 📻 Fiber Optical Port 🗧 Alarm 🔳 Normal 🗏 Disconnected	
	Port Information	
	Port Name   Peer Device  Peer Device  Peer Device Name	

Figure 3-1 Device Status

#### **Device Status**

You can view the device usage, device panel status and port information.

#### **Port Status**

You can view the bitrate, duplex and flow control of ports.

#### **Port Statistics**

You can view the number of bytes sent or received, the number of packets sent or received, sending or receiving rate, and peak value of sending or receiving rate.

## iNote

Drag the sliding bar to view all data.

#### **PoE Port Status**

You can view the enabling status and output power of different ports.

## **Chapter 4 Typology Display**

In **Typology** interface, you can view the relationships among different devices added and configure the typology.

## 4.1 Relate Operations

Select a device added, go to  $\blacksquare \rightarrow$  General Application  $\rightarrow$  Typology to enter the typology display interface.

Enter the device name an Q	- 🕑 Workes - 🎯 Optical I - 🕞 Netsock 📔 # Office # Planet # bury # Congenti
@ 0	

Figure 4-1 Typology Display

#### **Interface Description**

- On the upper-left corner, you can enter another name or IP address to search the device.
- On the upper-right corner, you can view the icon of lines and the meaning of different colors, select two device to show the flash of the signal transmission between them, and export or refresh the typology.
- On the lower-left corner, you can do the typology settings and view the tips.
- On the lower-right corner, you can click the icons or scroll your mouse wheel to enlarge or narrow the typology.

### **i**Note

If you enter the typology interface for the first time, no typology is displayed, please click a to refresh it.

Actions/Icons	Operation Description				
Double click a device.	Show the device type and IP, panel status, and port information.				
Double click a line.	Show transmission rate, port information, etc.				
Right-click a device.	Jump to <b>Device Status</b> interface. For details, see <b>Device Status</b> .				
	Show the alarm information and event information, and cancel the alarm.				
	Jump to Remote Configuration interface.				
	Set the device as root node.				
	Edit the device name.				
Б	Select the path and format to export the typology.				
<u>**</u>	Select IPC and current devices to show the flash of the signal transmission between them.				

### **Relate Operations/Icons Description**

## 4.2 Typology Settings

#### Steps

**1.** Click on the lower-left corner to do the typology settings.

- Set display level: 1 to 10.
- Set upstream bandwidth L1 alarm: 1% to 100%. The line will turn to yellow (busy) when the bandwidth exceeds the threshold of L1 alarm.
- Set upstream bandwidth L2 alarm: 1% to 100%. The line will turn to red (congestion) when the bandwidth exceeds the threshold of L2 alarm.
- 2. Click OK.

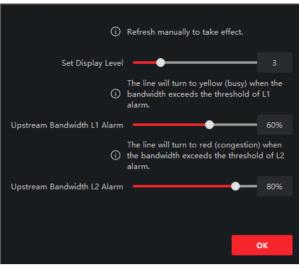


Figure 4-2 Typology Settings

# After changing the typology settings, you need to click to view the latest typology.

## **Chapter 5 Network Configuration**

In **Network** interface, you can configure basic parameters as needed.

Go to O  $\rightarrow$  Network  $\rightarrow$  General to configure NIC type, IPv4 address, subnet mask, default gateway, MAC address, and device port.

Network Parameter	Advanced Configu	ıra	ition	
NIC Туре	10M/100M/1000M Se			
IPv4 Address				
Subnet Mask (IPv4):				
Default Gateway (IPv4):				
MAC Address				
Device Port	8000			
				Save

Figure 5-1 Network Configuration

## iNote

After the IPv4 address is reset, the device IP may not be in the same network segment as the computer IP of the client, so it cannot be configured and managed. It is recommended to use the SADP tool to plan the IP address of the device when the device is activated for the first time.

## **Chapter 6 Port Configuration**

Select  $\textcircled{O} \rightarrow$  **Port Configuration** to enter the interface.

## **i**Note

Different devices have different functions, so the actual interface shall prevail.

## 6.1 Attribute Configuration

The basic parameters can influence the working status of ports. Configure the bitrate, duplex, and flow control, and enable or disable ports according to the actual situations in the **Attribute Configuration** interface.

Attribute Con	nfiguratior	ı							
Port Name	Bitrate	I	Duplex		Flow Control		Enable		
Eth1	Auto Negoti	•	Auto Negoti	•	Enable	-	Enable		•
Eth2	Auto Negoti	•	Auto Negoti	•	Enable	-	Enable		-
Eth3	Auto Negoti	•	Auto Negoti	•	Enable	-	Enable		-
Eth4	Auto Negoti	-	Auto Negoti	•	Enable	-	Enable		-
Eth5	Auto Negoti	-	Auto Negoti	•	Enable	•	Enable		-
Eth6	Auto Negoti	-	Auto Negoti	•	Enable	•	Enable		-
Eth7	Auto Negoti	•	Auto Negoti	•	Enable	-	Enable		-
Eth8	Auto Negoti	•	Auto Negoti	•	Enable	-	Enable		-
Ge1	1000M	•	Auto Negoti	•	Enable	•	Enable		-
Ge2	1000M	•	Auto Negoti	•	Enable	-	Enable		-
							<u>i</u>	Save	

Figure 6-1 Attribute Configuration

#### Bitrate

The data transmission rate of the port. The rate includes auto, 10 Mbps, 100 Mbps, and 1000 Mpbs. The default is **Auto Negotiation**. The configurable rate varies with different ports.

### Duplex

The duplex mode of the port. Only Auto Negotiation is available for the current version.

#### **Flow Control**

Enabling the flow control can prevent data loss in data transmission. The default is **Enable**.

### Enable

Enable or disable the port link. After you disable the port link, the data of the port stops transmission, but the power is supplied for other devices.

## iNote

The rate, duplex, and flow control configuration of all ports must be the same in the aggregation group .

## 6.2 Long-Range Port Configuration

When the long-range mode is enabled, the transmission distance of the port can reach 250 meters, and the rate is 10 Mbps. When the long-range mode is disabled, the rate is restored to auto.

Long-Range Po	ort Configuratio	n
Port Name	Long-Range Mode	
Eth1	Close	
Eth2	Close	•
Eth3	Close	•
Eth4	Close	•
Eth5	Close	
Eth6	Close	•
Eth7	Close	•
Eth8	Close	•
Eth9	Close	•
Eth10	Close	
Eth11	Close	•
Eth12	Close	•
Eth13	Close	•
Eth14	Close	
Eth15	Close	•
F+61C		• (i) Save

Figure 6-2 Long-Range Configuration

## 6.3 PoE Port Configuration

You can enable PoE to supply power for the powered devices (PDs).

## **i**Note

Enabling or disabling PoE has no influences on data transmission of the port.

PoE Port Confi	guration		
Port Name	PoE		
Eth1	Close	•	
Eth2	Enable	•	
Eth3	Enable	•	
Eth4	Enable	•	
Eth5	Enable	•	
Eth6	Enable	•	
Eth7	Enable	•	
Eth8	Enable	•	
Eth9	Enable	•	
Eth10	Enable	•	
Eth11	Enable	•	
Eth12	Enable	•	
Eth13	Enable	•	
Eth14	Enable	•	
Eth15	Enable		
F+616	F61-	• () Sa	ive

Figure 6-3 PoE Port Configuration

## **Chapter 7 Link Aggregation Configuration**

Link aggregation is used to aggregate physical ports to create a logical channel. The advantages of link aggregation are higher transmission rate with wider bandwidth.

#### Steps

1. Select 
→ Link Aggregation → Load Balancing Configuration .

Link Aggregation Configuration	
Load Balancing Aggregation G	
Load Balancing Mode Source and Destination MAC 🔻	
	Save

Figure 7-1 Load Balancing Configuration

**Source and Destination MAC**: Load balancing is performed based on source and destination MAC addresses on all the packets.

2. Select  $\bigcirc \rightarrow$  Link Aggregation  $\rightarrow$  Aggregation Group .

## **i**Note

Only gigabit ports can be added into aggregation groups.

3. Click Add.

Add Aggregation Group			$\times$
Aggregation Group	(1~8)		
Available Ports		Ports to be Configured	
Ge1			
Ge2			
Ge3			
Ge4	111111111		
Ge5	Add >>		
Ge6			
Ge7	< <delete< td=""><td>No Data</td><td></td></delete<>	No Data	
Ge8			
Ge9			
Ge10			
Ge11			
		OK Cancel	

Figure 7-2 Add Aggregation Group

- 4. Enter the group number in the Aggregation Group field.
- 5. Move the ports that are to be assigned to the group from the Available Ports to the Ports to be Configured list.

## iNote

- You can delete the ports from the **Ports to be Configured** by clicking **Delete**.
- Up to 4 ports can be added a link aggregation group.
- The rate, duplex, flow control, and long-range configuration of all ports must be the same in the aggregation group.
- 6. Click OK to add a link aggregation group.

## **Chapter 8 System Configuration**

## 8.1 Device Information

Select  $\textcircled{O} \rightarrow$  System  $\rightarrow$  Device Information to view the device information including the device name, device model, port No., and port information.

Displaying the Device Information						
Basic Info	ormation					
Device Name		DS-3E1518P-I				
Device Model		DS-3E1518P-EI				
Port No.		18				
Serial No.		DS-3E1518P-EI20200225	CRRE16862088			
Device Progra	am Version	V1.1.5 build 200228				
Port Infor	rmation					
Port Po	rt Name	Bandwidth	Port Typ	e		
1 G	e1	1000M	RJ45 Port			
2 G	ie2	1000M	RJ45 Port			
3 G	ie3	1000M	RJ45 Por			
4 G	ie4	1000M	RJ45 Por	t.		
						Save

Figure 8-1 Device Information

## 8.2 User Management

The device only supports one admin user. Users cannot be added or deleted. You can only edit the passwords, IP addresses and permissions of the user.

#### Steps

#### **1.** Select $\bigcirc$ $\rightarrow$ System $\rightarrow$ User .

2. Click Edit or double-click the user to edit the password, IP address or permission of the user.

User Parameters			
User Information			
User Type	Administrator 🔹	User Name	admin
Old Password:			
Password		Confirm Password	
User Permission			
🗹 Remote Alarm Upload			
🗹 Remote Parameter Configurati			
Remote Log Search/Status			
Remote Shutdown/Restart			
Remote Advanced Operation		No I	Data
			Save Cancel

Figure 8-2 User Parameters

#### Password

8 to 16 characters allowed, including at least 2 of the following types: digits, lower-case letters, upper-case letters, and special characters. The password strength of the device can be automatically checked. We highly recommend you change your password regularly in order to increase the security of your product.

#### **User Permission**

Configure different permissions according to actual needs.

## 8.3 Device Maintenance

You can restart the device, restore the defaults, upload the upgrade file to upgrade your device.

#### Steps

- 1. Select @ → System → System Maintenance .
- 2. Select function button to realize different functions.
  - **Reboot**: Click **Reboot** to remotely restart the device.
  - **Restore Default Settings**: Except network configuration and user parameters, all of the other parameters are restored to the default settings.
  - **Restore All**: All parameters are restored to the default settings. After restoration, the device needs to be activated again.
  - **Import Configuration File**: Select the configuration file, and enter the password for file export. After import, the devices will be restarted automatically.

- Export Configuration File: Set and confirm the password for file export, and click OK. Select a storage path, and click Save.
- Click to select the upgrade file, and click **Upgrade**. The upgrading progress is shown below.

## iNote

If upgrading failed or the device cannot function, please contact our technical engineers.

### 8.4 Log Management

System operation logs can be searched and exported for backup.

#### Steps

- **1.** Select  $\textcircled{O} \rightarrow$  System  $\rightarrow$  Log Query .
- 2. Set search conditions.

#### Search Mode

By Type, By Time, By Time&Type or All can be selected.

#### Major Type

**Operation**, **Event**, and **All** can be selected. If you select the search mode as by time, the major type cannot be set.

#### **Minor Type**

Minor type is different under different major type. If you select the search mode as by time, the major type cannot be set.

#### Start Time

It refers to the start time for the logs. If you select the search mode as by type, the major type cannot be set.

#### End Time

It refers to the end time for the logs. If you select the search mode as by type, the major type cannot be set.

#### 3. Click Search.

- 4. Click Backup, and select a backup path.
- 5. Click Backup.

## 8.5 Security Configuration

If the IP is locked because you enter a wrong password, the admin user can log in to the client at the PC (the IP is not locked) and enter the **Security** interface to unlock the locked IP.

#### Steps

## iNote

If you need to unlock it immediately, you can contact the admin user.

#### **1.** Select $\textcircled{\mbox{$\otimes$}} \rightarrow$ System $\rightarrow$ Security .

2. Unlock the IPs.

- Click unlock icon to unlock single IP.
- Click Unlock All to unlock all of the IPs.

## iNote

- If the admin user is locked, you need to change the IP to log in admin again and unlock the locked IP.
- The maximum number of consecutive wrong passwords allowed for ordinary users is 5, and for admin users is 7.

## **Chapter 9 Appendix**

## 9.1 Communication Matrix

Please scan the QR code below to view the communication matrix document.



Figure 9-1 Communication Matrix

## 9.2 Device Command

Please scan the QR code below to view the device command document.



Figure 9-2 Device Command

