

SICOM6432G/3432G Series Industrial Ethernet Switches Hardware Installation Manual

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KYLAND

SICOM6432G/3432G Series

Industrial Ethernet Switches Hardware Installation Manual

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Notice for Safety Operation

The product performs reliably as long as it is used according to the guidance. Artificial damage or destruction of the device should be avoided. Before using the device, read this manual carefully for personal and equipment safety. Please keep the manual for further reference. Kyland is not liable to any personal or equipment damage caused by violation of this notice.

- Do not place the device near water sources or damp areas. Keep the ambient relative humidity within the range from 5% to 95% (non-condensing).
- Do not place the device in an environment with high magnetic field, strong shock, or high temperature. Keep the working and storage temperatures within the allowed range.
- Install and place the device securely and firmly.
- Please keep the device clean; if necessary, wipe it with a soft cotton cloth.
- Do not place any irrelevant materials on the device or cables. Ensure adequate heat dissipation and tidy cable layout without knots.
- Wear antistatic gloves or take other protective measures when operating the device.
- Avoid any exposed metal wires because they may be oxidized or electrified.
- Install the device in accordance with related national and local regulations.
- Before power-on, make sure the power supply is within the allowed range of the device. High voltage may damage the device.
- Power connectors and other connectors should be firmly interconnected.
- Do not plug in or out the power supply with wet hands. When the device is powered on, do not touch the device or any parts with wet hands.
- Before operating a device connected to a power cable, remove all jewelry (such as rings, bracelets, watches, and necklaces) or any other metal objects, because they may cause electric shock or burns.
- Do not operate the device or connect or disconnect cables during an electrical storm.
- Use compatible connectors and cables. If you are not sure, contact our sales or technical support personnel for confirmation.

- Do not disassemble the device by yourself. When an anomaly occurs, contact our sales or technical support personnel.
- If any part is lost, contact our sales or technical support personnel to purchase the substitute. Do not purchase parts from other channels.
- Dispose of the device in accordance with relevant national provisions, preventing environmental pollution.

In the following cases, please immediately shut down your power supply and contact your Kyland representative:

- Water gets into the equipment.
- Equipment damage or shell damage.
- Equipment operation or performance has abnormally changed.
- The equipment emits odor, smoke or abnormal noise.

NOTE: 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.

Contents

1 Product Overview	1
2 Structure and Interface	4
3 Mounting.....	5
3.1 Dimension Drawing	5
3.2 Mounting Modes and Steps	6
4 Connection	8
4.1 10/100/1000Base-T(X) Ethernet Port.....	8
4.2 1000Base-X, 10/100/1000Base-T(X) SFP slot.....	9
4.2.1 Gigabit SFP Optical Module	10
4.2.2 Gigabit SFP Electrical Module	11
4.3 1000Base-X, 10/100/1000Base-T(X) Combo port.....	11
4.4 10GBase-X SFP+ port	12
4.5 Console Port	13
4.6 Grounding	14
4.7 Power Terminal Block	14
4.8 Alarm Terminal Block	16
5 LEDs.....	17
6 Switch Access	19
6.1 Access through Console Port.....	19
6.2 Access through Telnet	21
6.3 Access through Web	22
7 Basic Features and Specifications.....	23

1 Product Overview

SICOM6432G/3432G include a series of high-performance 10 Gigabit industrial Ethernet switches developed by Kyland particularly. The solid closed housing, fanless but heat dissipation-capable chassis, overcurrent, overvoltage protection for power input, and IP65 protection class, make this series of device widely used in coal industry, factory automation, highway system and other fields. This series of device support the ring network redundancy protocol, which provides multiple guarantees for the reliable operation of the system; has a powerful network management function, and the network management system supports CLI, Telnet, Web, and SNMP-based network management software. SICOM6432G series are layer 3 switch that support the layer 3 routing protocol.

The switches support 1U rack mounting.

Table 1 SICOM6432G Models

Model	SICOM6432G-PORT-PS1-PS2
Code definition	Code option
Ports	4X8G8GX16GE, 8G8GX16GE, 4GX24GE, 4X24GE
	<p>Note:</p> <p><i>4X8G8GX16GE:</i> <i>four 10GBase-X SFP+;</i> <i>eight 1000Base-X, 10/100/1000Base-T(X)Combo ports;</i> <i>eight 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i> <i>sixteen 10/100/1000Base-T(X) ports</i></p> <p><i>8G8GX16GE:</i> <i>eight 1000Base-X, 10/100/1000Base-T(X)Combo ports;</i> <i>eight 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i> <i>sixteen 10/100/1000Base-T(X) ports</i></p> <p><i>4GX24GE:</i> <i>four 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i> <i>twenty-four 10/100/1000Base-T(X) ports</i></p>

	<p><i>4X24GE:</i></p> <p><i>four 10GBase-X SFP+;</i></p> <p><i>twenty-four 10/100/1000Base-T(X) ports</i></p>
PS1: power input 1	L2(24-48VDC)、HV (220AC/DCW)
PS2: power input 2	L2(24-48VDC)、HV (220AC/DCW)、NA

Table 2 SICOM3432G Models

Model	SICOM3432G-PORT-PS1-PS2
Code definition	Code option
Ports	<p>4X8G8GX16GE, 8G8GX16GE, 4GX24GE, 4X24GE</p> <p>Note:</p> <p><i>4X8G8GX16GE:</i></p> <p><i>four 10GBase-X SFP+;</i></p> <p><i>eight 1000Base-X, 10/100/1000Base-T(X)Combo ports;</i></p> <p><i>eight 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i></p> <p><i>sixteen 10/100/1000Base-T(X) ports</i></p> <p><i>8G8GX16GE:</i></p> <p><i>eight 1000Base-X, 10/100/1000Base-T(X)Combo ports;</i></p> <p><i>eight 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i></p> <p><i>sixteen 10/100/1000Base-T(X) ports</i></p> <p><i>4GX24GE:</i></p> <p><i>four 1000Base-X, 10/100/1000Base-T(X) SFP slots;</i></p> <p><i>twenty-four 10/100/1000Base-T(X) ports</i></p> <p><i>4X24GE:</i></p> <p><i>four 10GBase-X SFP+;</i></p> <p><i>twenty-four 10/100/1000Base-T(X) ports</i></p>
PS1: power input 1	L2(24-48VDC)、HV (220AC/DCW)
PS2: power input 2	L2(24-48VDC)、HV (220AC/DCW)、NA

**Note:**

We reserve the right to amend the product information listed in this table without notice. To obtain the latest information, you can contact our sales or technical support personnel.

2 Structure and Interface



Caution:

It is recommended to purchase the port dustproof shield (optional) to keep ports clean and ensure switch performance.

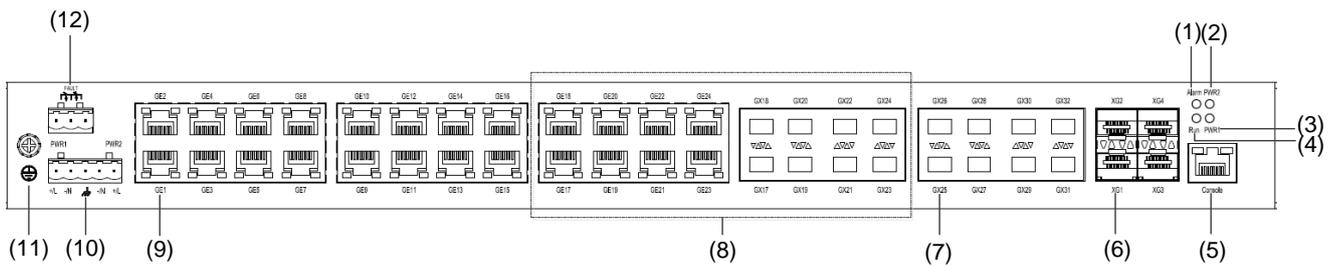


Figure 1 Front Panel

Table 3 Description of the Front Panel

No.	Identifier	Description
(1)	Alarm	Alarm LED
(2)	PWR2	Power 2 LED
(3)	PWR1	Power 1 LED
(4)	Run	Running LED
(5)	Console	Console Port
(6)	XG1-XG4	four 10GBase-X SFP+
(7)	GX25-GX32	eight 1000Base-X, 10/100/1000Base-T(X) SFP slots
(8)	GE/GX(17-24)	eight 1000Base-X, 10/100/1000Base-T(X)Combo
(9)	GE1-GE16	sixteen 10/100/1000Base-T(X) ports
(10)	+L -N  -N +L	Power terminal block PWR1/PWR2
(11)		Grounding screw
(12)	FAULT	Alarm terminal block

3 Mounting

3.1 Dimension Drawing

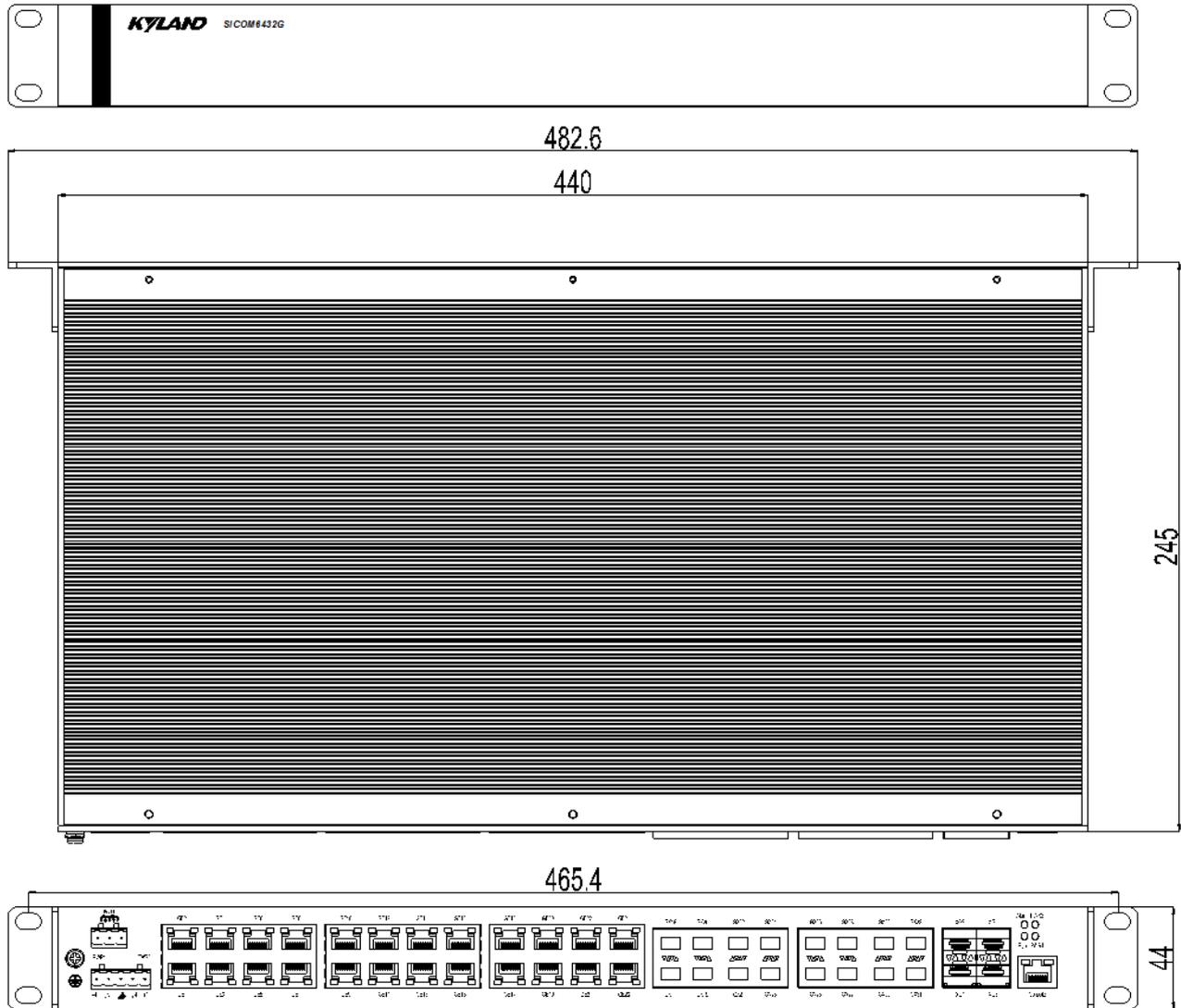


Figure 2 SICOM6432G&3432G Dimensions (unit: mm)



Caution:

- As part of the heat dissipation system, the switch housing becomes hot during operation. Please use caution when coming in contact and avoid covering the switch housing when the switch is running.
- The figures in this manual are only for reference.

3.2 Mounting Modes and Steps

The series switches support rack mounting by front/rear panel. The following uses mounting by front panel as an example to describe mounting steps. The steps for mounting by rear panel are similar to those for mounting by front panel. Before installation, make sure that the following requirements are met.

- 1) Environment: temperature (-40°C to 75°C), ambient relative humidity (5% to 95%, non-condensing).
- 2) Power requirement: The power input is within the voltage range of the switch.
- 3) Grounding resistance: <math><5\Omega</math>
- 4) No direct sunlight, distant from heat source and areas with strong electromagnetic interference.
- 5) Devices are to be installed in an authority certified enclosure and accessible only by the use of a tool.
- 6) Devices should be installed and accessed by service personnel or users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.

● Installing Mounting Brackets

The mounting brackets for this series switches support two mounting positions, as indicated by the two dashed boxes in the following figure. You can select either of the mounting positions as needed.

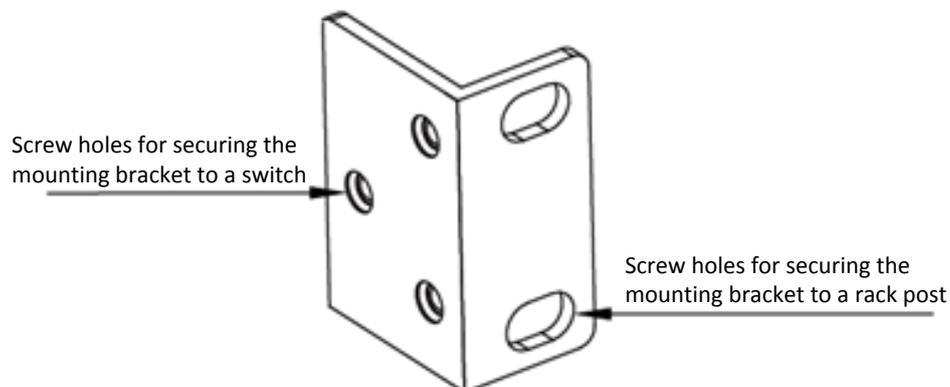


Figure 3 Mounting Bracket

You can select the screw holes for front or rear panel mounting to install the mounting brackets. If there are screws inserted in the screw holes, remove the screws and keep them for future use.

As shown in the following figure, use four screws to secure two mounting brackets to the switch respectively.

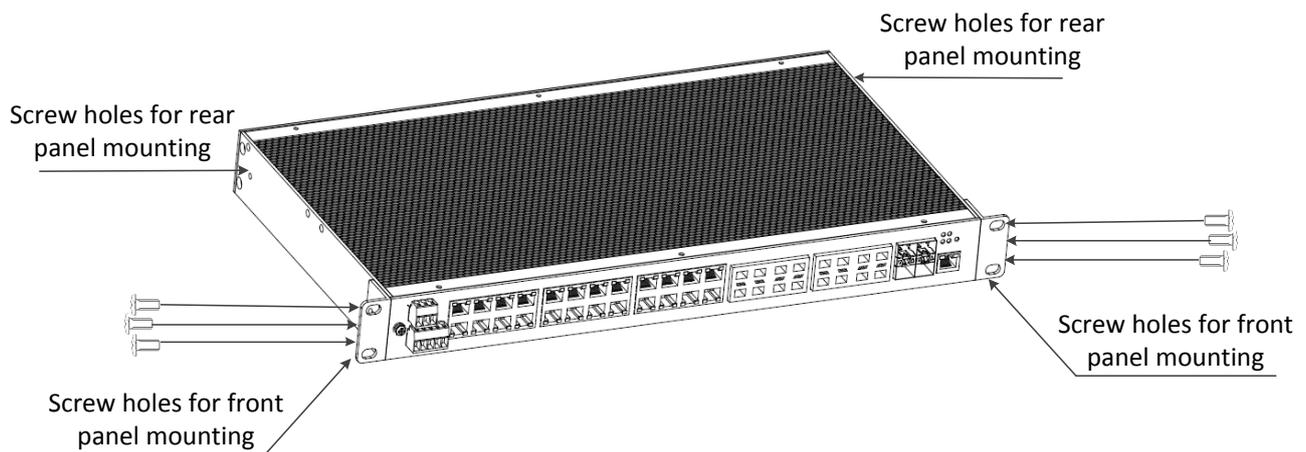


Figure 4 Installing Mounting Brackets

- Mounting

Step 1: Select the mounting position for the switch and guarantee adequate space and heat dissipation (house dimensions: 440mm×44mm×245mm).

Step 2: Move the switch in direction 1 until the screw holes for securing the mounting brackets to rack posts are in alignment with the corresponding holes in the rack posts. Then use four screws and supporting captive nuts to secure the mounting brackets to the rack posts.

- Dismounting

Step 1: Remove the four screws and supporting captive nuts securing the mounting brackets to the rack posts.

Step 2: Remove the switch from the rack posts. Then unscrew the mounting brackets to complete dismounting.



Caution:

Cut off the power and disconnect all cables before mounting, dismounting or moving the equipment.

4 Connection

4.1 10/100/1000Base-T(X) Ethernet Port

10/100/1000Base-T(X) Ethernet port is equipped with RJ45 connector. The port is self-adaptive. It can automatically configure itself to work in 10M, 100M, or 1000M state, full or half duplex mode. The port can also adapt to MDI or MDI-X connection automatically. You can connect the port to a terminal or network device with a straight-through or cross-over cable.

- Pin Definition

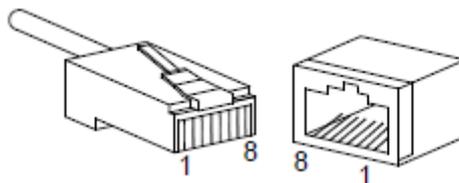


Figure 5 RJ45 Port

Table 4 Pin Definitions of 10/100/1000Base-T(X) RJ45 Port

Pin	MDI-X	MDI
1	Transmit/Receive Data (TRD1+)	Transmit/Receive Data (TRD0+)
2	Transmit/Receive Data (TRD1-)	Transmit/Receive Data (TRD0-)
3	Transmit/Receive Data (TRD0+)	Transmit/Receive Data (TRD1+)
4	Transmit/Receive Data (TRD3+)	Transmit/Receive Data (TRD2+)
5	Transmit/Receive Data (TRD3-)	Transmit/Receive Data (TRD2-)
6	Transmit/Receive Data (TRD0-)	Transmit/Receive Data (TRD1-)
7	Transmit/Receive Data (TRD2+)	Transmit/Receive Data (TRD3+)
8	Transmit/Receive Data (TRD2-)	Transmit/Receive Data (TRD3-)

 **Note:** "+" and "-" indicate level polarities.

- Wiring Sequence

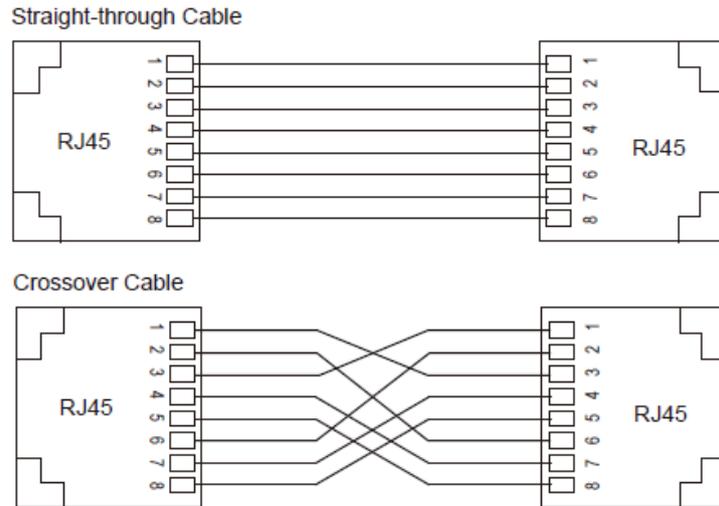


Figure 6 Connection Using Straight-through/Cross-over Cable



Note:

The color of the cable for RJ45 connector meets the 568B standard: 1-orange and white, 2-orange, 3-green and white, 4-blue, 5-blue and white, 6-green, 7-brown and white, and 8-brown.

4.2 1000Base-X, 10/100/1000Base-T(X) SFP slot

1000Base-X, 10/100/1000Base-T(X) SFP slot (gigabit SFP slot) requires an SFP optical/electrical module to enable data transmission. The following table lists the gigabit SFP optical/electrical modules (optional) supported by the series switches.

Table 5 Gigabit SFP Optical/Electrical Modules

Model	Port	MM/SM	Connector	Central Wavelength	Transmission Distance
IGSFP-M-SX-LC-850-0.55	1000Base-X port	MM	LC	850nm	0.55km
IGSFP-S-LX-LC-1310-10	1000Base-X port	SM	LC	1310nm	10km
IGSFP-S-LH-LC-1310-40	1000Base-X port	SM	LC	1310nm	40km
IGSFP-S-ZX-LC-1550-80	1000Base-X port	SM	LC	1550nm	80km

4.2.1 Gigabit SFP Optical Module

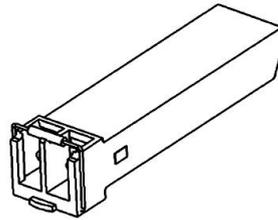


Figure 7 Gigabit SFP Optical Module

An SFP optical module is equipped with LC connector, and each port consists of a TX (transmit) port and an RX (receive) port. To enable communication between Device A and Device B, connect the TX port of Device A to the RX port of Device B, and the RX port of Device A to the TX port of Device B, as shown in the following figure.

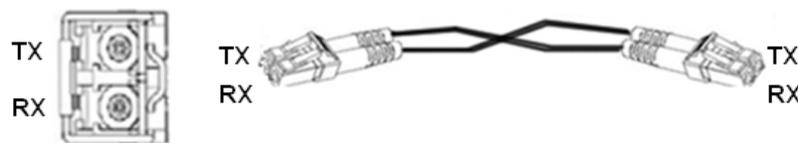


Figure 8 Fiber Connection of an SFP Optical Module

- How to Connect the SFP Optical Module

Insert the SFP optical module into the SFP slot in the switch, and then insert the fibers into the TX port and RX port of the SFP module.

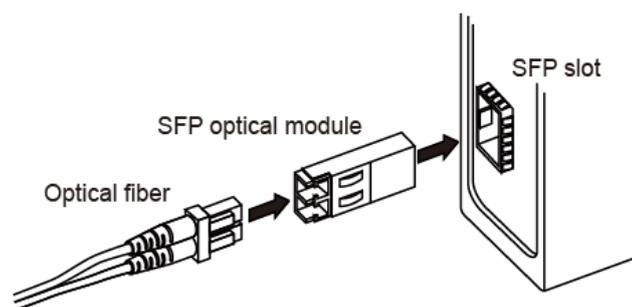


Figure 9 Connecting the SFP Optical Module

Identify the RX port and TX port of an SFP optical module:

1. Insert the two connectors in one end of two fibers into the SFP module, and those in the other end into the peer module.
2. View the corresponding connection status LED:

If the LED is on, the connection is correct. If the LED is off, the link is not connected. This may be caused by incorrect connection of the TX and RX ports. In this case, swap the two connectors at one end of the fibers.



Caution:

- The device uses laser to transmit signals in fibers. The laser meets the requirements of level 1 laser products. Routine operation is not harmful to your eyes, but do not look directly at the fiber port when the device is powered on.
- If the defined transmission distance of an SFP module is longer than 60km, do not use a short fiber (<20km) for connection. If such a short fiber is used, the module will be burned.

4.2.2 Gigabit SFP Electrical Module

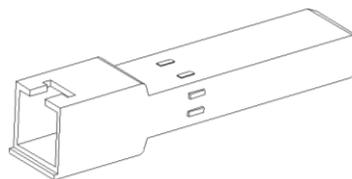


Figure 10 Gigabit SFP Electrical Module

- How to Connect the SFP Electrical Module

Insert the SFP electrical module into the SFP slot in the switch, and then insert the RJ45 connector of the twisted pair into the SFP module.

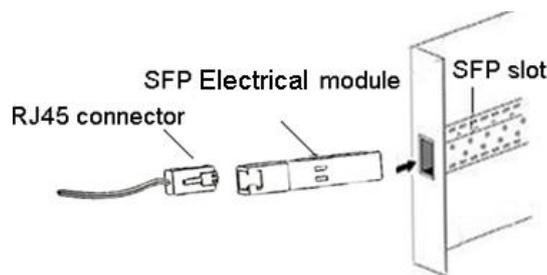


Figure 11 Connecting the SFP Electrical Module

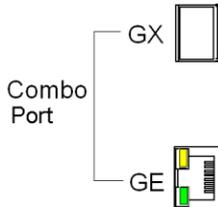
4.3 1000Base-X, 10/100/1000Base-T(X) Combo port

As shown in following table, the 1000Base-X, 10/100/1000Base-T(X)Combo port consists of one 1000Base-X SFP port(GX) and one 10/100/1000Base-T(X) Ethernet port, and only one of the two ports can be used at one time, and the 1000Base-X SFP port has priority over

10/100/1000Base-T(X) Ethernet port. Plug the optical fiber and the twisted pair into GX and GE respectively; GX can communicate normally and the GE will be disabled automatically.

The following table lists the relation of Gigabit SFP ports of Combo port and the corresponding 10/100/1000 Base-T(X) Ethernet port.

Table 6 Combo port corresponding relation

		
Combo port	1000Base-X SFP port	10/100/1000Base-T(X) Ethernet port
(1)	GX1	GE1
(2)	GX2	GE2
.....

4.4 10GBase-X SFP+ port

10GBase-X SFP+ slot (10GBase-X SFP+ slot) requires an SFP+ optical module to enable data transmission. The following table lists the 10GBase-X SFP+ optical modules (optional) supported by the series switches.

Table 7 SFP+ optical module

Model	Port	MM/SM	Connector	Central Wavelength	Transmission Distance
ATR-S0701DT	10GBase-X	SM	LC	1310nm	10km



Note:

The appearance, wiring and using methods of the 10GBase-X SFP+ port are same as the gigabit SFP slot, user can refer to 4.2.

4.5 Console Port

There is a Console port on the front panel of the switch. This console port is an RJ45 interface. You can configure, maintain, and manage the device in two ways.

Way1:

Connect the 9-pin serial port of a PC to the console port of the switch with a DB9-RJ45 console cable. You can configure, maintain, and manage the switch by running Hyper Terminal in the Windows OS of a computer.

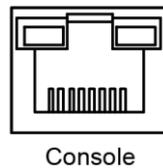


Figure 12 Console Port

- DB9-RJ45 Console Cable

One end of a DB9-RJ45 console cable is the DB9 connector to be inserted into the 9-pin serial port of a PC, and the other end is crimped RJ45 connector to be inserted into the console port of the switch.

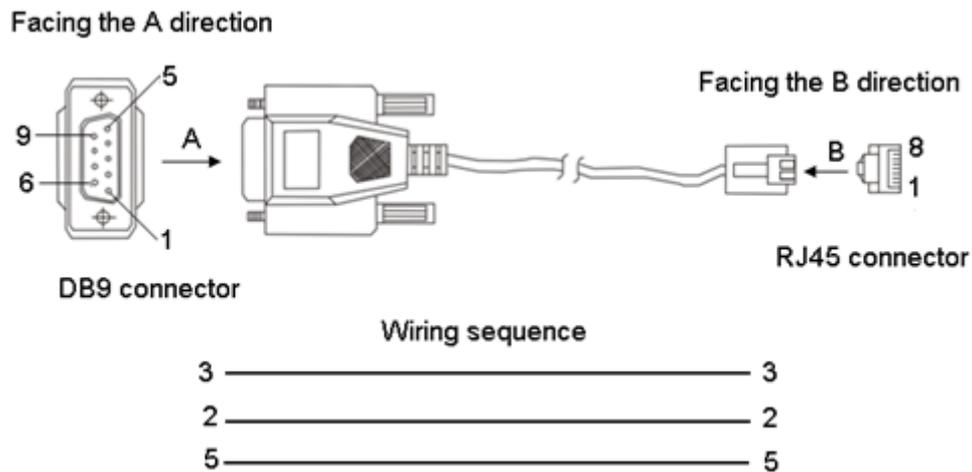


Figure 13 Wiring Sequence of DB9-RJ45 Console Cable

Table 8 Pin Definitions of DB9 Port (9-Pin Serial Port) and RJ45 Port (Console Port)

DB9 Port (9-Pin Serial Port)		RJ45 Port (Console Port)	
Pin	Signal	Pin	Signal

2	RXD (Receive data)	2	TXD (Transmit data)
3	TXD (Transmit data)	3	RXD (Receive data)
5	GND (Grounding)	5	GND (Grounding)

Way2:

Use a standard RJ45 network cable to connect the network port of the PC and the console port of the device, and configure and manage the device through the web.

4.6 Grounding

Grounding protects the device from lightning and interference. Therefore, you must ground the device properly. You need to ground the device before it is powered on and disconnect the grounding cable after the device is powered off.

There is a grounding screw(see) on the Front panel of the device. The screw is for chassis grounding. After crimping one end of the grounding cable to a cold pressed terminal, secure the end to the grounding screw and firmly connect the other end to ground.



Note:

Cross-sectional area of the chassis grounding cable >2.5mm²; Grounding resistance <5Ω

4.7 Power Terminal Block

There is a power terminal block on the Front panel of the switch. You need to connect the power cable to the terminal block to provide power for the switch.

The device supports single (PWR1) and redundant (PWR1 and PWR2) power supply with a 5-pin 5.08mm-spacing plug-in terminal block. When the redundant power supply is used and one power supply is faulty, the switch can continue operating properly, thereby improving network reliability.



Note:

0.75mm² < Cross-sectional area of the power cable < 2.5mm²; Grounding resistance: < 5Ω

- 5-pin 5.08mm-spacing plug-in terminal block

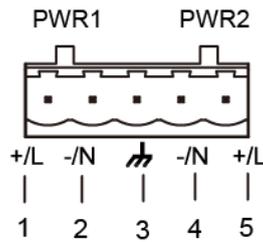


Figure 14 5-Pin 5.08mm-Spacing Plug-in Terminal Block

Table 9 Pin Definitions of 5-Pin 5.08mm-Spacing Plug-in Terminal Block

No.	Signal	DC Definition	AC Definition
1	+/L	PWR1: +	PWR1: L
2	-/N	PWR1: -	PWR1: N
3		PGND	PGND
4	-/N	PWR2: -	PWR2: N
5	+/L	PWR2: +	PWR2: L



Caution:

For single power supply, only pins 1, 2, and 3 (PWR1) of the terminal block can be connected. Do not use pins 4 and 5.

● Wiring and mounting

Step 1: Ground the switch properly according to section 4.6.

Step 2: Remove the power terminal block from the switch.

Step 3: Insert the power cable into the power terminal block according to Table 9 to fix the power cable.

Step 4: Insert the terminal with the connected cable into the terminal block on the device.

Step 5: Connect one end of the power cable to an external power supply system (with the allowed power range). If the power LED on the front panel of the switch turns on, the power supply is connected properly.



Caution:

Before connecting the device to power supply, make sure that the power input meets the power requirement. If connected to an incorrect power input, the device may be damaged.



Warning:

- Do not touch any exposed conducting wire, terminal, or component with a voltage warning sign, because it may cause personal injury.
- Do not remove any part or plug in or out any connector when the device is powered on.

4.8 Alarm Terminal Block

The alarm terminal block is used for alarm output. When the switch works properly, the normally-open contacts of the alarm relay are closed and the normally-closed contacts are open. When an alarm occurs, the normally-open contacts are open and the normally-closed contacts are closed. The alarm is outputted through a 3-pin 5.08mm spacing terminal block, as shown in Figure 15.

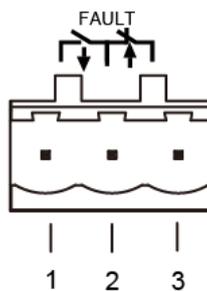


Figure 15 Alarm Terminal Block

Electrical parameters of the relay:

Max Switch Voltage: 250VAC/220VDC

Max Switch Current: 2A

Max Switch Power: 60W

Maximum dielectric voltage withstand: 2KV

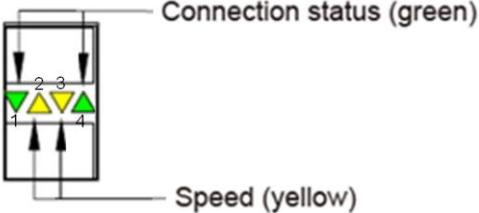


Note:

Pin 1 and pin 2 are normally-open contacts; pin 2 and pin 3 are normally-closed contacts. When the switch works properly, pin 1 and pin 2 are closed, pin 2 and pin 3 are open; when an alarm occurs, pin 1 and pin 2 are open; pin 2 and pin 3 are closed.

5 LEDs

Table 10 Front Panel LEDs

LED	State	Description	
Power 1 LED-PWR1	On	The power 1 is connected and operates properly.	
	Off	The power 1 is not connected or operates abnormally.	
Power 2 LED-PWR2	On	The power 2 is connected and operates properly.	
	Off	The power 2 is not connected or operates abnormally.	
Running LED-Run	On	The device is starting up	
	Blinking	The CPU operates properly.	
	Off	The device does not start up	
Alarm LED-Alarm	On	An alarm occurs.	
	Off	No alarm occurs.	
 <p>LED 1 and LED 2 indicate the status of the lower gigabit SFP slot, while LED 3 and LED 4 indicate the status of the upper gigabit SFP slot.</p>			
1000Base-X, 10/100/1000Base-T(X) SFP slot speed LED	Gigabit SFP optical module	On	1000M working state (1000Base-TX)
		Off	100M working state (100Base-FX) or no connection
1000Base-X, 10/100/1000Base-T(X) SFP slot connection status LED		On	Effective port connection
		Blinking	Ongoing network activities
		Off	No effective port connection
10GBase-X SFP+ slot speed LED		On	10G working state (10GBase-X)
		Off	1000M working state (1000Base-TX) or no connection

10GBase-X SFP+ slot connection status LED	On	Effective port connection
	Blinking	Ongoing network activities
	Off	No effective port connection

6 Switch Access

You can access the switch in any of the following ways:

6.1 Access through Console Port

The console port is an RJ45 interface, and you can access the device in two ways.

- DB9-RJ45 console cable

Step 1: Connect the console port of the switch to the 9-pin serial port of a PC with the delivered DB9-RJ45 console cable.

Step 2: Open the Hyper Terminal in the Windows OS. On the desktop, click Start → All Programs → Accessories → Communications → Hyper Terminal.

Step 3: Create a connection "Switch", as shown in Figure 16.



Figure 16 Creating a Connection

Step 4: Connect the communication port in use, as shown in Figure 17.



Figure 17 Selecting the Communication Port in Use



Note:

To confirm the communication port in use, right-click [My Computer] and click [Property]→ [Hardware]→[Device Manager]→[Port] to view the communication port.

Step 5: Set port parameters (Bits per second: 115200, Data bits: 8, Parity: None, Stop bits: 1, and Flow control: None), as shown in Figure 18.

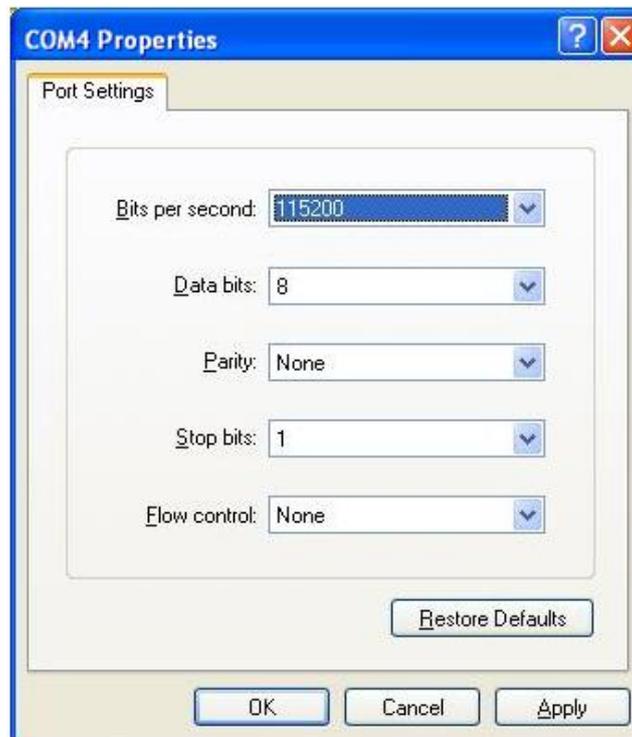


Figure 18 Setting Port Parameters

Step 6: Click OK to enter the switch CLI. Then you can run the following commands to perform operations.

Table 11 CLI Commands

View	Command	Description
User view	SWITCH>enable	Enter the management view.
Management view	SWITCH#show interface	Query the IP address of the switch.
Management view	SWITCH#show version	Query the version of the switch.
Management view	SWITCH#reboot	Restart the switch.
Management view	SWITCH#load default	Restore the factory default settings
Management view	SWITCH#config terminal	Enter the configuration view.

- RJ45 console cable

1. The PC and the switch can communicate normally;
2. Input "*IP address*" in the browser address bar (Default ip: 192.168.1.2). After opening the login dialog box, enter the default user name (admin) and default password (123) to successfully log in to the device Web management page.

6.2 Access through Telnet

Step 1: Connect the network port of a PC to the Ethernet port of the switch with a network cable.

Step 2: Enter "telnet IP-address" in the Run dialog box, as shown in Figure 19. The default IP address of a Kyland switch is 192.168.0.2.

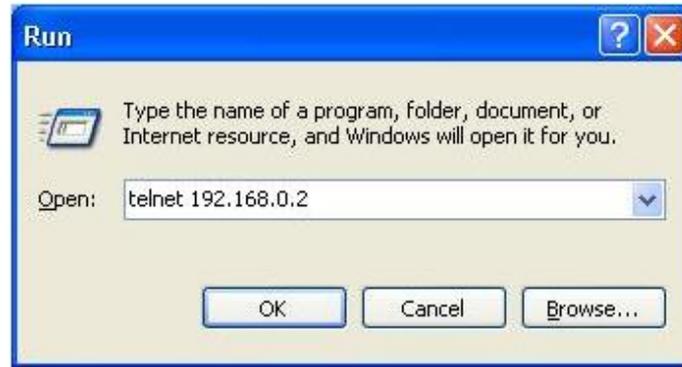


Figure 19 Access through Telnet

Step 3: Click OK. The Telnet CLI is displayed. Then you can enter commands (as shown in Table 11) to perform operations.

6.3 Access through Web

Step 1: Connect the network port of a PC to the Ethernet port of the switch with a network cable.

Step 2: Enter the IP address of the switch in the address box of the browser. The user login interface is displayed. You can log in to the Web UI by default user name "admin" and password "123".



Note:

- IE8.0 or a later version is recommended.
 - For details about how to access the switch and other operation, refer to the Web operation manual in the delivered CD.
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7 Basic Features and Specifications

Power Requirements

Power Identifier	Rated Voltage Range	Maximum Voltage Range
L2	24-48VDC	18-72VDC
HV (220AC/DCW)	100-240VAC,50/60Hz;110-220VDC	85-264VAC/77-300VDC
Terminal Block	5-pin 5.08mm spacing terminal block	

Rated Power Consumption

Rated Power Consumption	53.9W (MAX)
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Physical Characteristics

Housing:	Metal, fanless
Installation	1U rack mounting
Dimensions(WxHxD)	440mm×44mm×245mm (Including the power supply protruding from the casing surface)
Weight:	< 5 Kg

Environmental Limits

Ambient temperature	-40℃～+75℃
Storage temperature	-40℃～+85℃
Ambient relative humidity	5%～95% (non-condensing)

MTBF

MTBF	631232h
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Warranty

Warranty	Five years
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KYLAND

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For more information about KYLAND
products, please visit our website:

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