

SICOM3000BA Industrial Ethernet Switch

Hardware Installation Manual



KYLAND

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SICOM3000BA Industrial Ethernet Switch

Hardware Installation Manual

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Notice for Safety Operation

This product performs reliably as long as it is used according to the guidance.

Artificial damage or destruction of the equipment should be avoided.

- Read this manual carefully and keep it for future reference.
- Do not place the equipment near water sources or damp areas.
- Do not place anything on power cable or put the cable in unreachable places.
- Do not tie or wrap the cable, which may cause a fire risk.
- Power connectors and other equipment connectors should be firmly interconnected and checked frequently.
- Do not repair the equipment by yourself, unless it is clearly specified in the manual.
- Please keep the equipment clean; if necessary, wipe the equipment with soft cotton cloth.

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.

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1 Product Overview

SICOM3000BA includes a series of green, intrinsically safe gigabit industrial Ethernet switches with low power consumption developed by Kyland. Equipped with high-performance switching engine, the series switches comply with intrinsically safe design.

SICOM3000BA provides powerful network management functions. The device can be managed through CLI, Telnet, Web, and SNMP-based network management software. The Reset button allows one-touch recovery.

SICOM3000BA has two forms: integrated device and bare board. An integrated device supports both DIN-rail mounting and panel mounting, while a bare board can be installed in another device. SICOM3000BA provides up to six 10/100Base-T(X) ports and three slots for 1000Base-X, 10/100/1000Base-T(X) SFP module.

2 Structure and Interface

2.1 Front Panel

Table 11 lists the models of SICOM3000BA. This chapter uses SICOM3000BA-C-3GX-6T as an example to describe the front panel of an integrated device and SICOM3000BA-EM-C-3GX-6T as an example to describe a bare board.

- Front Panel of SICOM3000BA-C-3GX-6T (integrated device)

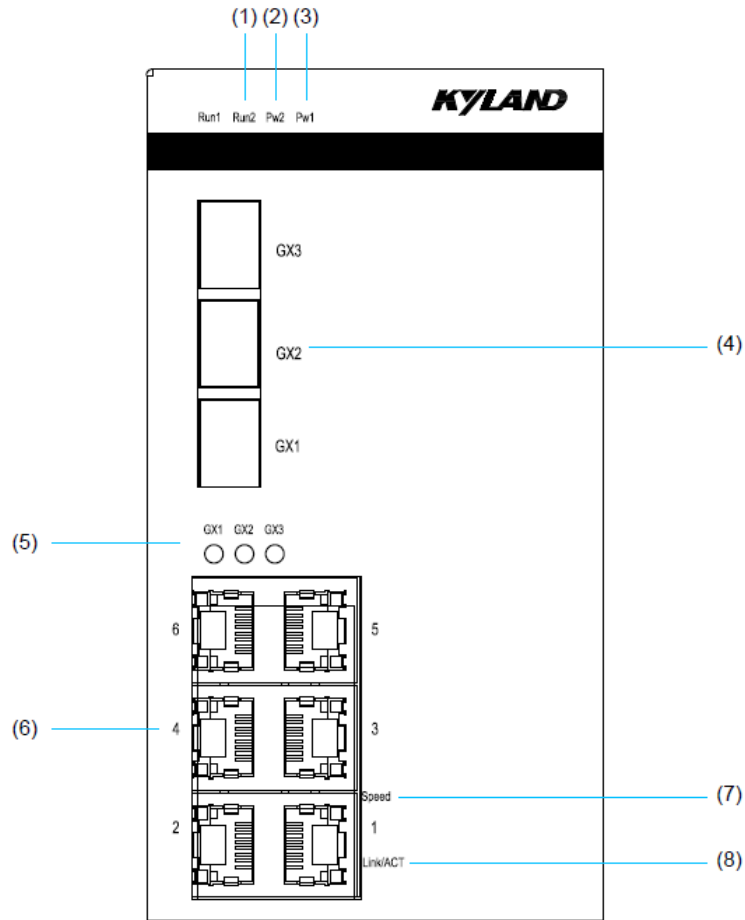


Figure 1 Front Panel of SICOM3000BA-C-3GX-6T (12DC)

Table 1 Description of the Front Panel of SICOM3000BA-C-3GX-6T (12DC)

No.	Identifier	Description
(1)	Run2	Running LED
(2)	Pw2	Power 2 LED
(3)	Pw1	Power 1 LED
(4)	GX1-GX3	1000Base-X, 10/100/1000Base-T(X) SFP slots
(5)	GX1-GX3	1000Base-X, 10/100/1000Base-T(X) SFP slot LEDs
(6)	1-6	10/100Base-T(X) ports
(7)	Speed	10/100Base-T(X) RJ45 port speed LED
(8)	Link/ACT	10/100Base-T(X) RJ45 port connection status LED

- SICOM3000BA-EM-C-3GX-6T (bare board)

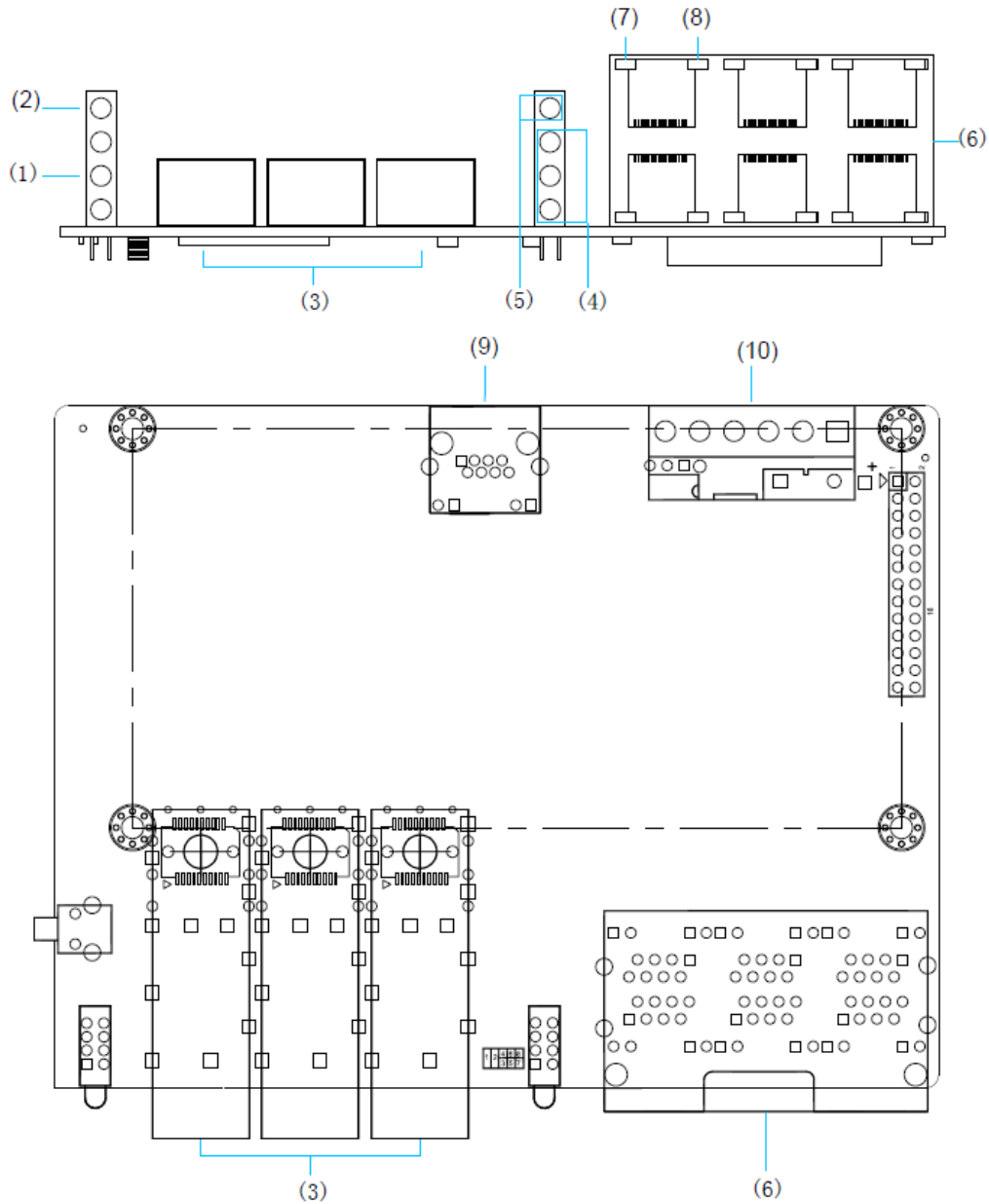


Figure 2 SICOM3000BA-EM-C-3GX-6T (bare board, 3.3DC/5DC)

Table 2 Description of SICOM3000BA-EM-C-3GX-6T (bare board, 3.3DC/5DC)

No.	Description
(1)	Running LED
(2)	Power 1 LED
(3)	1000Base-X, 10/100/1000Base-T(X) SFP slots
(4)	1000Base-X, 10/100/1000Base-T(X) SFP slot LEDs
(5)	Ring LED

(6)	10/100Base-T(X) ports
(7)	10/100Base-T(X) port speed LED
(8)	10/100Base-T(X) port connection status LED
(9)	Console port
(10)	Power terminal block : 6-pin 5.08mm-spacing plug-in terminal block

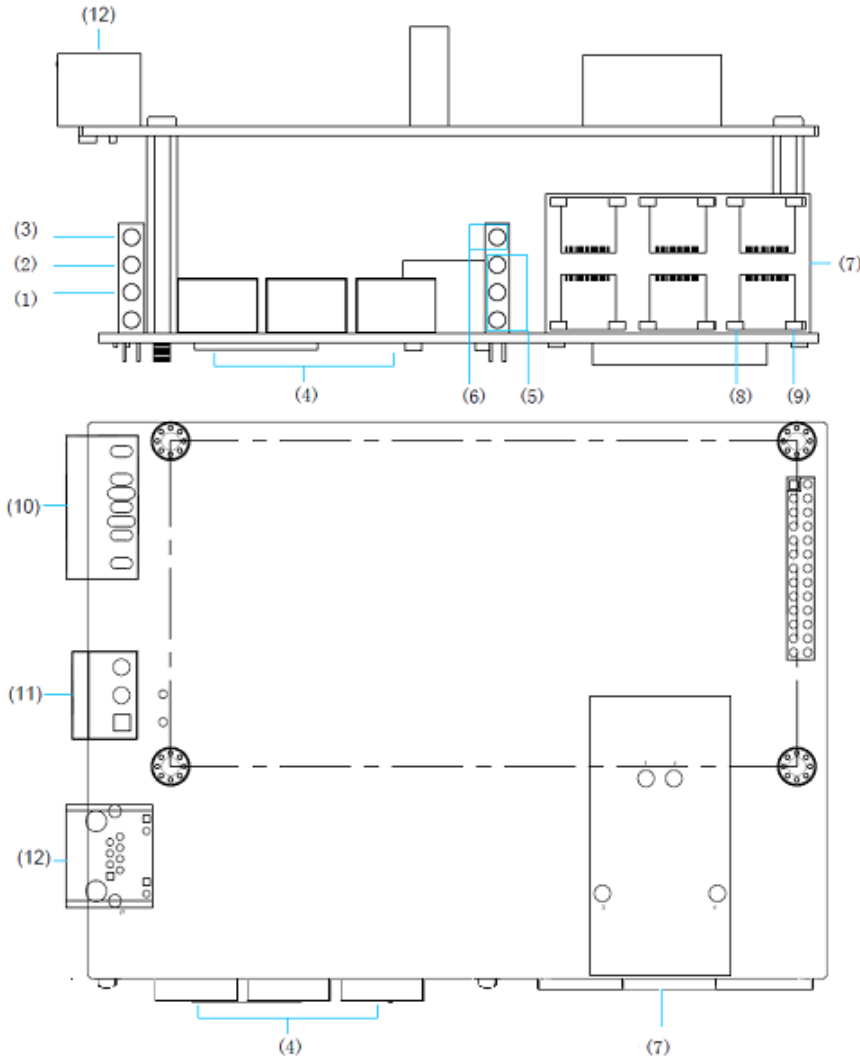


Figure 3 SICOM3000BA-EM-C-3GX-6T (bare board, 12DC/18DC)

Table 3 Description of SICOM3000BA-EM-C-3GX-6T (bare board, 12DC/18DC)

No.	Description
(1)	Running LED
(2)	Power 2 LED (12DC only)
(3)	Power 1 LED
(4)	1000Base-X, 10/100/1000Base-T(X) SFP slots

(5)	1000Base-X, 10/100/1000Base-T(X) SFP slot LEDs
(6)	Ring LED
(7)	10/100Base-T(X) ports
(8)	10/100Base-T(X) port speed LED
(9)	10/100Base-T(X) port connection status LED
(10)	Power terminal block : 5-pin 5.08mm-spacing plug-in terminal block
(11)	Alarm terminal block
(12)	Console port

2.2 Top Panel

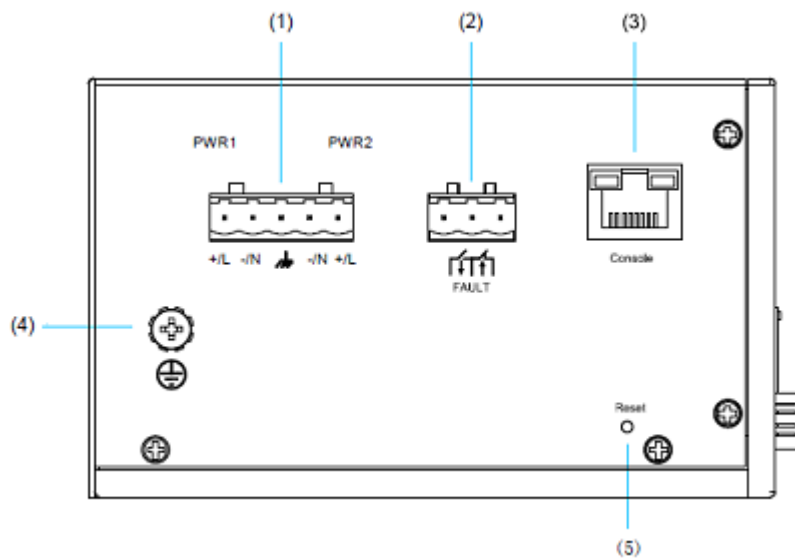



Figure 4 Top Panel of SICOM3000BA

Table 4 Description of the Top Panel of SICOM3000BA

No.	Identifier	Description
(1)	PWR1 PWR2 +/L -/N -/N +/L	Power terminal block
(2)	FAULT	Alarm terminal block
(3)	Console	Console port

(4)		Grounding screw
(5)	Reset	Reset button

3 Mounting

3.1 Dimension Drawing

- Dimensions for SICOM3000BA (integrated device, unit: mm)

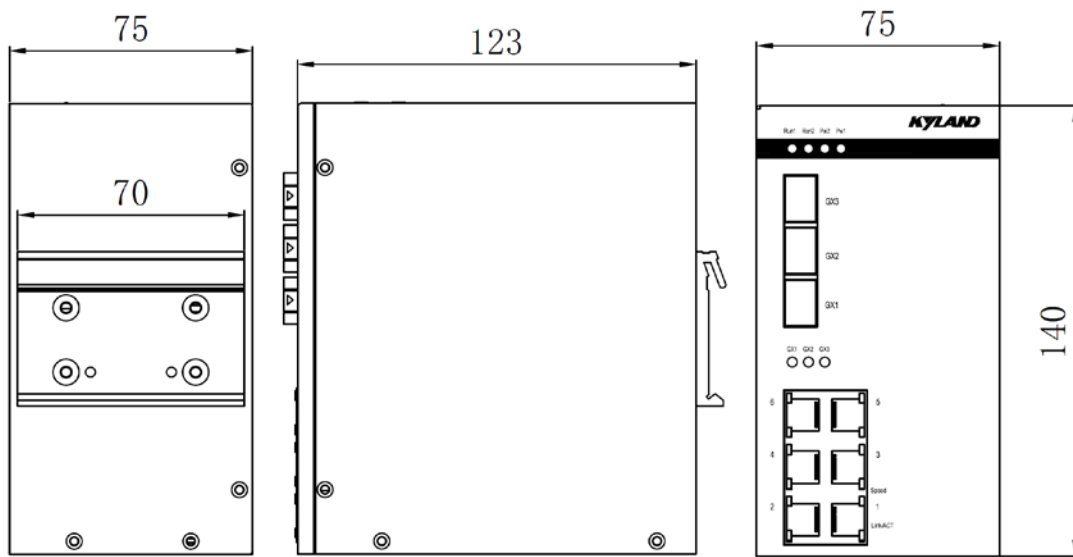


Figure 5 Dimensions for SICOM3000BA (integrated device, DIN-rail mounting)

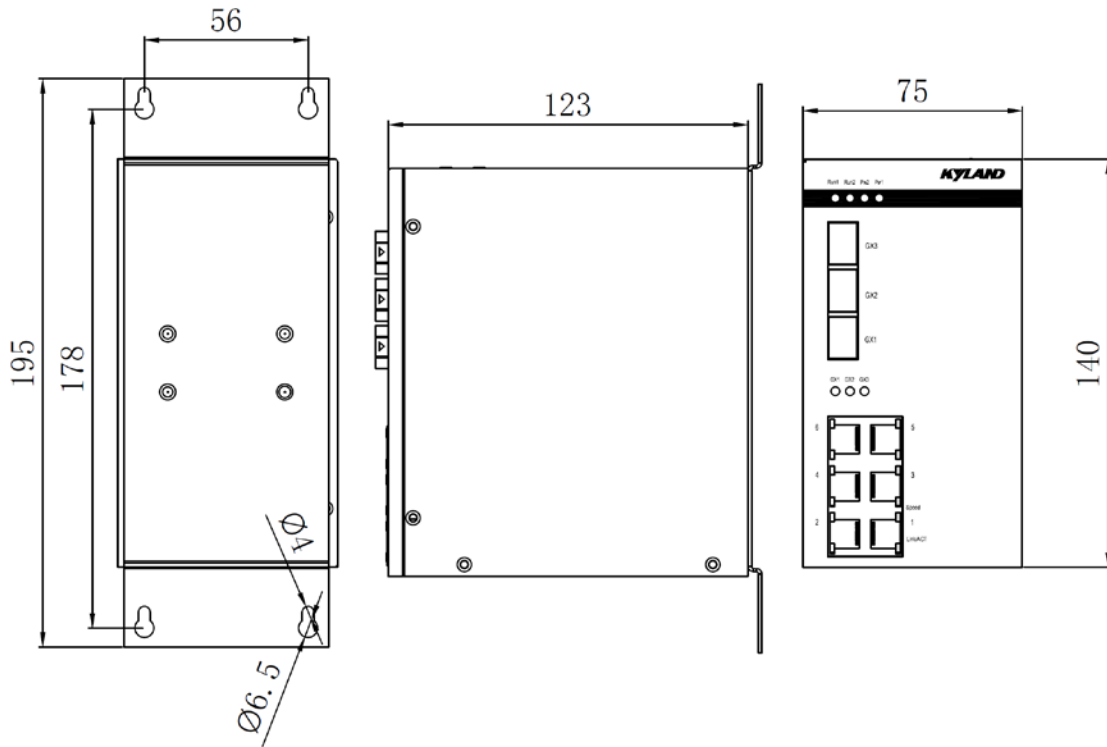


Figure 6 Dimensions for SICOM3000BA (integrated device, panel mounting)

- Dimensions for SICOM3000BA (bare board, unit: mm)

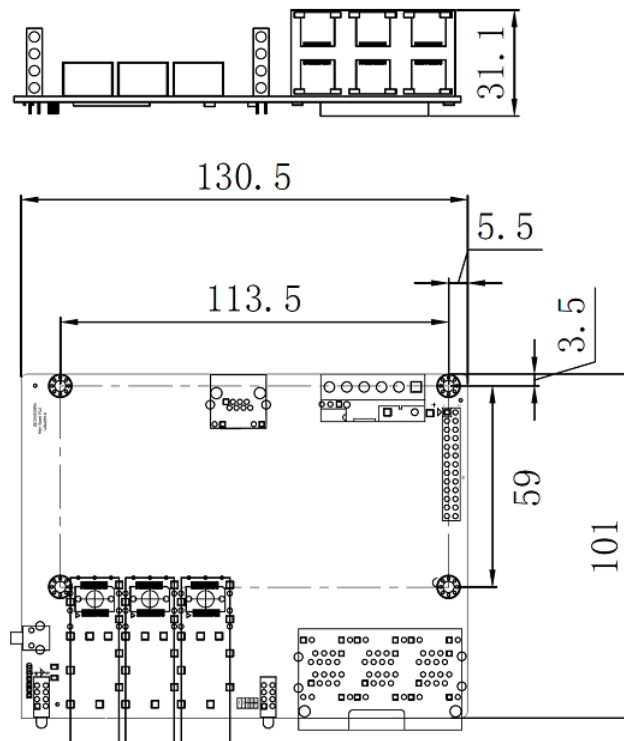


Figure 7 Dimensions for SICOM3000BA (bare board, 3.3DC/5DC)

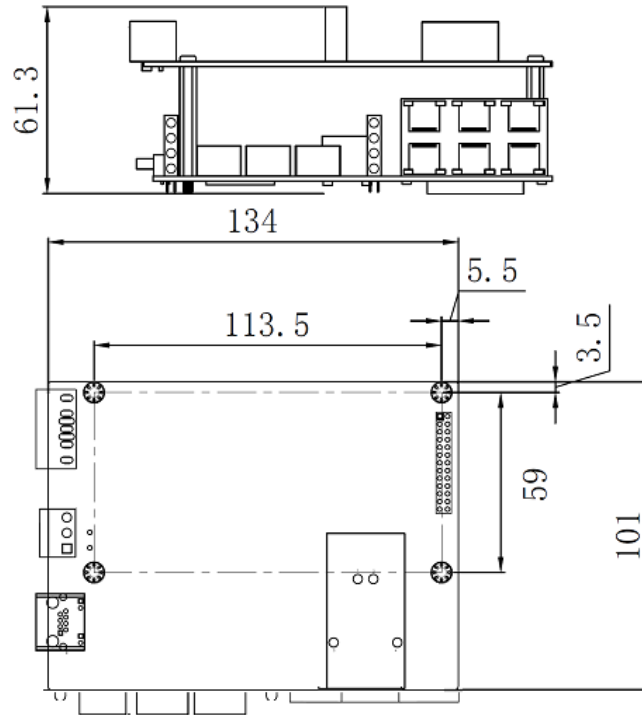


Figure 8 Dimensions for SICOM3000BA (bare board, 12DC/18DC)



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.

3.2 Mounting Modes and Steps

As mentioned in the first chapter, SICOM3000BA has two forms, that is, integrated device and bare board. A bare board can be directly installed in the target device, while the integrated device supports both DIN-rail mounting and panel mounting.

Before installation, make sure that the following requirements are met.

- 1) Environment: temperature (-40°C to 85°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.

3.2.1 DIN-Rail Mounting

- Mounting

Step 1: Select the mounting position for SICOM3000BA and guarantee adequate space for it.

Step 2: Insert the connecting seat of SICOM3000BA into the top of the DIN rail, and push the bottom of the device inward and upward to ensure the DIN rail fits in the connecting seat, as shown on the left of the following figure. Make sure that SICOM3000BA is firmly installed on the DIN rail, as shown on the right of the following figure.

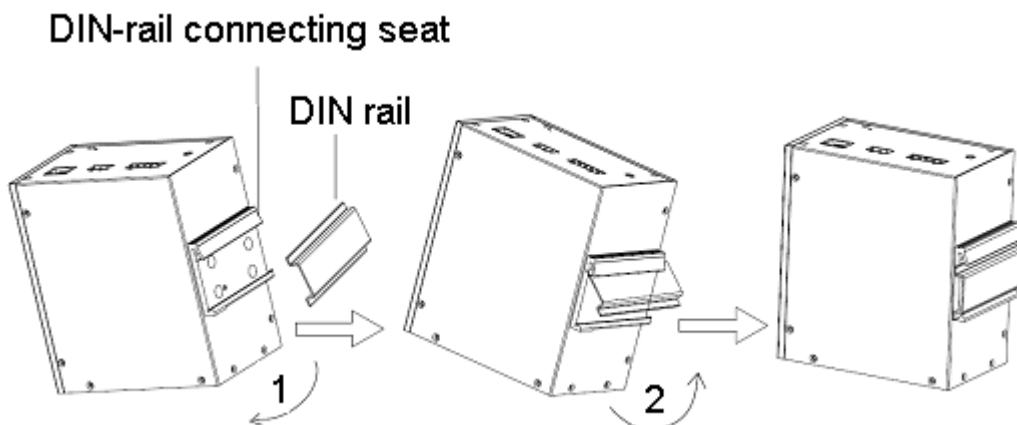


Figure 9 DIN-Rail Mounting (integrated device)

- Dismounting

Step 1: As shown in Figure 10, press the switch downward in the direction of arrow 1 to ensure adequate space at the bottom for detaching.

Step 2: Move the switch in the direction of arrow 2 and the bottom of the switch outward. When the bottom of the switch is detached from the DIN rail, push the switch upward. In this way, you can remove the switch from the DIN rail.

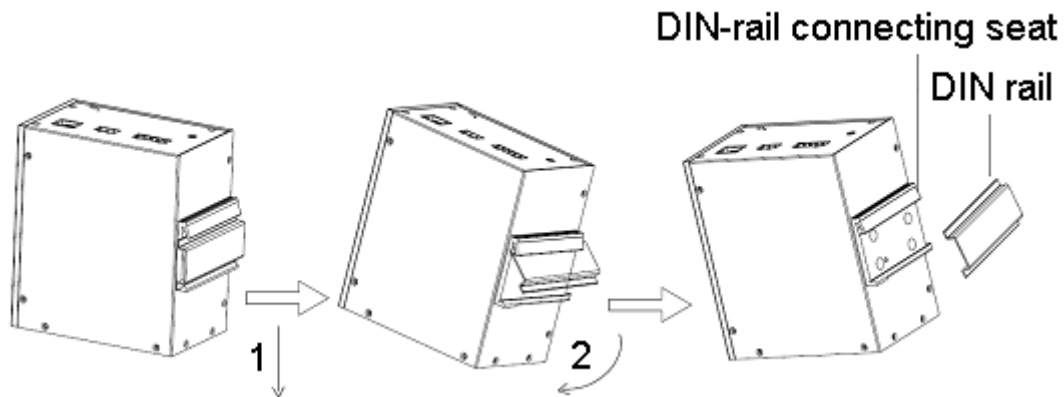


Figure 10 DIN-Rail Dismounting (integrated device)

3.2.2 Panel Mounting

- Mounting

Step 1: Select the mounting position on a wall or an inner wall of a cabinet for SICOM3000BA and guarantee adequate space for it.

Step 2: Punch four holes in the selected position according to the dimensions of SICOM3000BA. Insert four screws into the four holes respectively, and turn the screws with a screwdriver until about a 5mm distance is left between each screw head and the wall.

Step 3: Align the four mounting holes on the plate for panel mounting with the four screws. Make the screws pass through the $\Phi 6.5$ positions in the following figure. Move SICOM3000BA in direction 1 until the four screws are in the $\Phi 4$ positions. Then tighten the screws. In this way, SICOM3000BA is firmly mounted to the wall or inner wall of a cabinet.

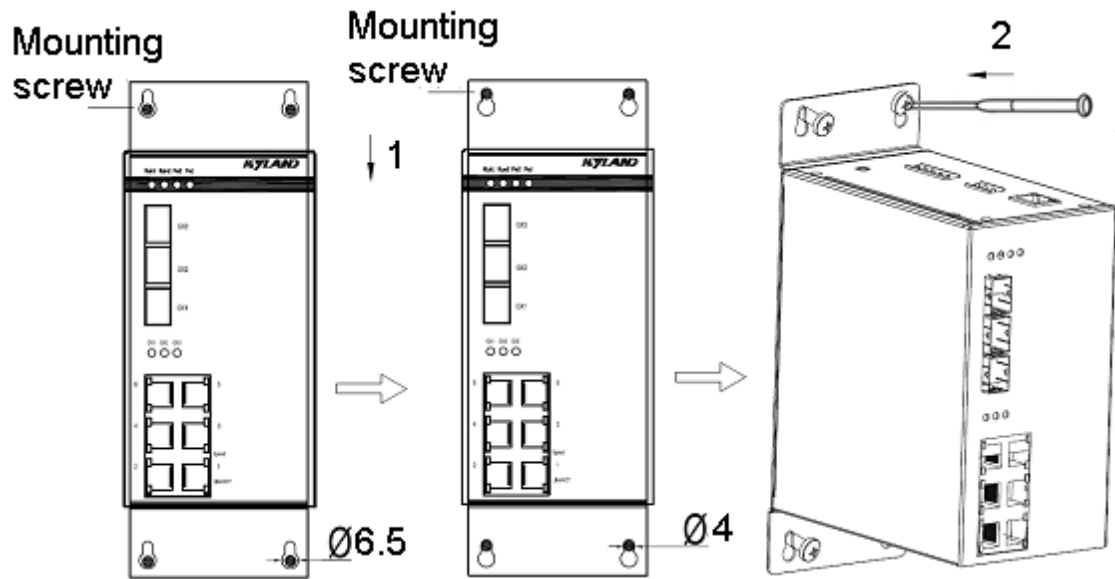


Figure 11 Panel Mounting (integrated device)

- **Dismounting**

Step 1: Loosen the four screws with a screwdriver. Move the device upward until the four screws are in the $\varnothing 6.5$ positions in the following figure. Then remove the plate for panel mounting from the four screws to detach the device from the wall or inner wall of the cabinet.

Step 2: Loosen the screws completely with a screwdriver. Remove them from the wall or inner wall of the cabinet. In so doing, you have completed dismounting the device.

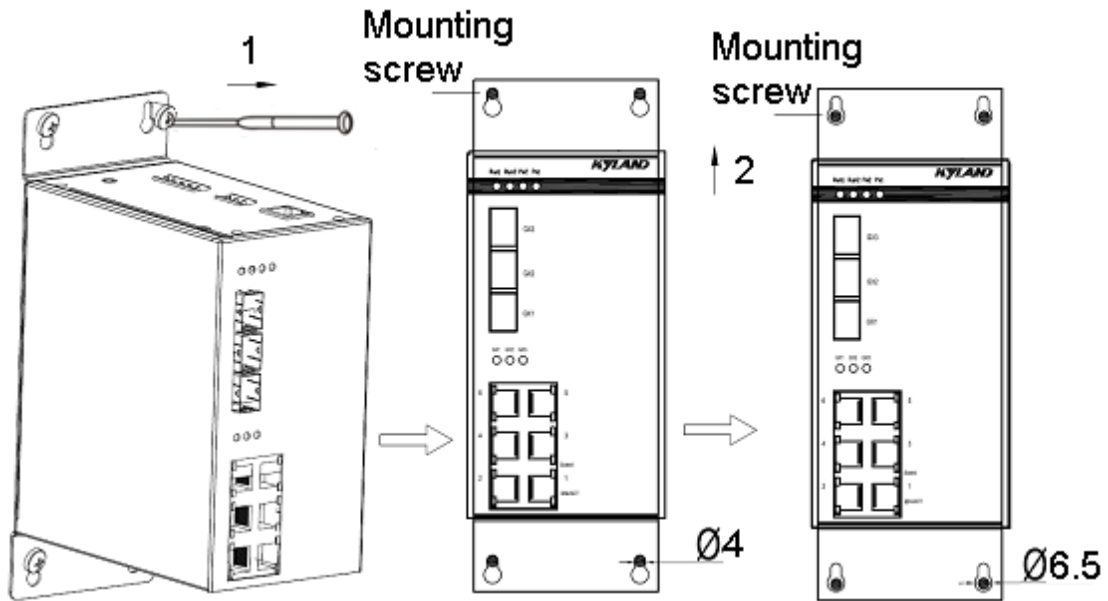


Figure 12 Panel Dismounting (integrated device)

4 Cable Connection

4.1 10/100Base-T(X) Port

10/100Base-T(X) port is equipped with RJ45 connector. The port is self-adaptive. It can automatically configure itself to work in 10M or 100M 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 13 shows the pin numbers of the RJ45 port.

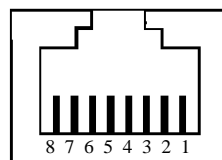



Figure 13 RJ45 Port

Table 5 lists the pin definitions of the 10/100Base-T(X) RJ45 port.

Table 5 Pin Definitions of 10/100Base-T(X) RJ45 Port

Pin	MDI-X Signal	MDI Signal
1	Receive Data+ (RD+)	Transmit Data+ (TD+)
2	Receive Data- (RD-)	Transmit Data- (TD-)
3	Transmit Data+ (TD+)	Receive Data+ (RD+)
6	Transmit Data- (TD-)	Receive Data- (RD-)
4, 5, 7, 8	Unused	Unused

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

● Wiring Sequence

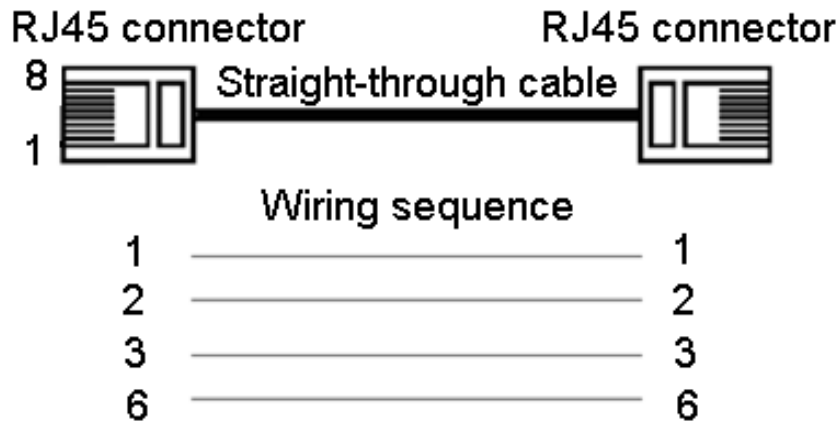


Figure 14 Connection Using Straight-through Cable

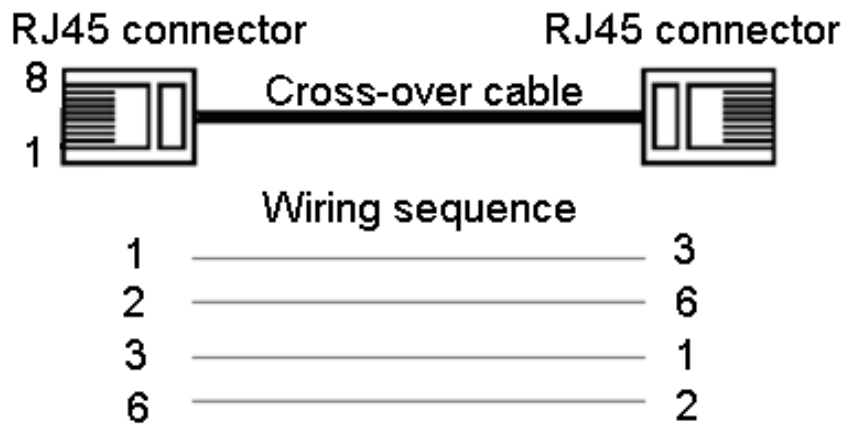


Figure 15 Connection Using Cross-over Cable



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 is gigabit SFP slot. You can enable data transmission only after inserting an SFP optical/electrical module into the slot and connecting cable properly. You can purchase SFP modules as needed, as shown in Table 12.

4.2.1 Gigabit SFP Optical Module

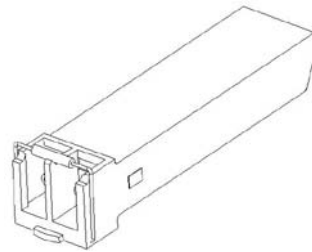


Figure 16 Gigabit SFP Optical Module

Gigabit SFP module is equipped with LC connector, and each port consists of a TX (transmit) port and an RX (receive) port, as shown in Figure 17.

To enable communication between Device A and Device B, connect the TX (transmit) port of Device A to the RX (receive) port of Device B, and the RX (receive) port of Device A to the TX (transmit) port of Device B, as shown in Figure 17.

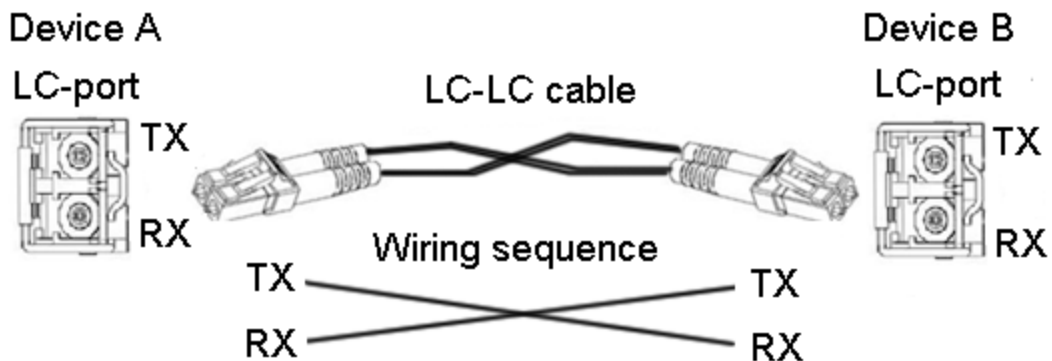


Figure 17 Cable Connection of Gigabit SFP Module

- How to Connect the 1000M SFP Optical Module

Insert the SFP module into the SFP slot in the switch, and then plug the optical fiber into the TX port and RX port of the SFP module, as shown in Figure 18.

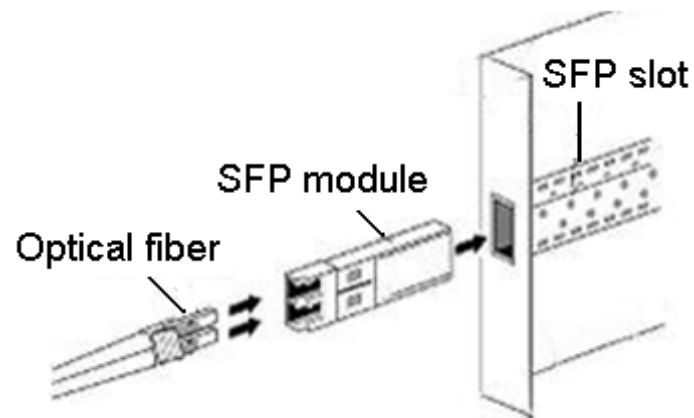


Figure 18 Connecting the Gigabit SFP Optical Module

How to Determine the RX Port and TX Port of Gigabit SFP Optical Module

1. Insert the two connectors in one end of optical fiber into the gigabit SFP module, and those in the other end of the optical fiber into the SFP module of another switch.
2. View the corresponding port Link/ACT LED in the front panel:
 - If the LED blinks, the link is connected.
 - 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, swop the two connectors in the one end of the optical fiber.

4.2.2 Gigabit SFP Electrical Module

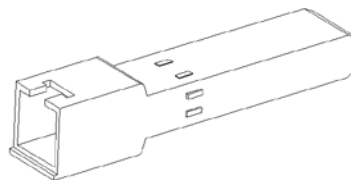


Figure 19 Gigabit SFP Electrical Module

● How to Connect the Gigabit SFP Electrical Module

While wiring, first insert the SFP module into the SFP slot in the switch, and then plug the RJ45 connector of the twisted pair into the SFP module, as shown in Figure 20.

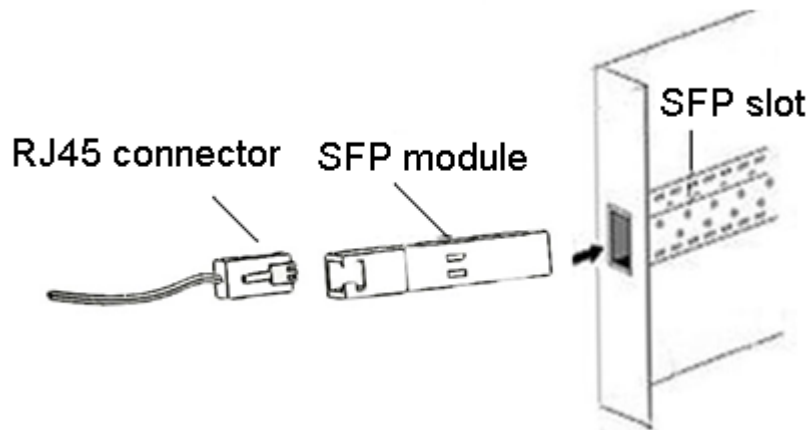


Figure 20 Connecting the Gigabit SFP Electrical Module

4.3 Console Port

Figure 21 shows the console port of the switch. Connect the 9-pin serial port of a PC to the console port of the switch with an RJ45-DB9 console cable. You can configure, maintain, and manage the switch by running the Hyper Terminal in the Windows OS of the computer.

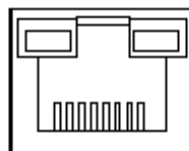


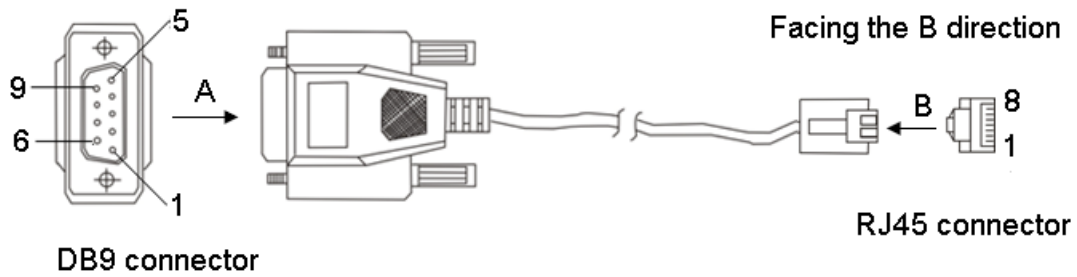
Figure 21 Console Port

- RJ45-DB9 Console Cable

Figure 22 shows the RJ45-DB9 console cable. One end of the cable is crimped RJ45 connector to be inserted into the console port of the switch, and the other end is the DB9 connector to be inserted into the 9-pin serial port of a PC.

Figure 22 shows the wiring sequence of the RJ45-DB9 console cable. Table 6 lists the pin definitions of the cable.

Facing the A direction



Wiring sequence

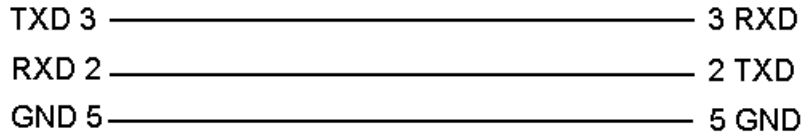


Figure 22 Wiring Sequence of DB9-RJ45 Console Cable

Table 6 Pin Definitions of DB9-RJ45 Console Cable

DB9 Pin	RJ45 Pin	Signal	Description
2	3	RXD	Receive Data
3	2	TXD	Transmit Data
5	5	GND	Grounding

4.4 Grounding

Grounding protects the device from lightning and interference. Therefore, you must ground the device properly.

Figure 23 shows the grounding screw of the switch. It is used for chassis grounding. After crimping one end of the grounding cable to a cold pressed terminal, secure the end to the grounding screw and connect the other end to the earth firmly.

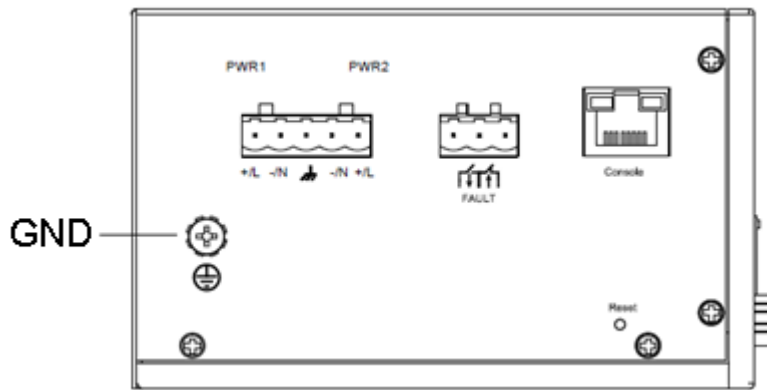


Figure 23 GND



Note:

Cross-sectional area of the chassis grounding cable $>2.5\text{mm}^2$;

Grounding resistance $<5\Omega$

4.5 Power Terminal Block

The power terminal block of an integrated device is on the top panel of the device, as shown in Figure 4. Figure 2 and Figure 3 show the power terminal block of two types of bare boards. You need to connect the power cable to the terminal block to provide power for the device.

An integrated device adopts 5-pin 5.08mm-spacing plug-in terminal block, while the two types of bare boards adopt 5-pin 5.08mm-spacing plug-in terminal block and 6-pin 5.08mm-spacing plug-in terminal block respectively.



Note:

$0.75\text{mm}^2 < \text{Cross-sectional area of the power cable} < 2.5\text{mm}^2$;

Grounding resistance: $<5\Omega$

When 12DC power supply is used, SICOM3000BA supports dual power inputs for redundancy. When one power input is faulty, the switch can continue operating properly, thereby improving network reliability.

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

Figure 24 shows the 5-pin 5.08mm-spacing plug-in terminal block. It is applicable to 12DC and 18DC power supply.

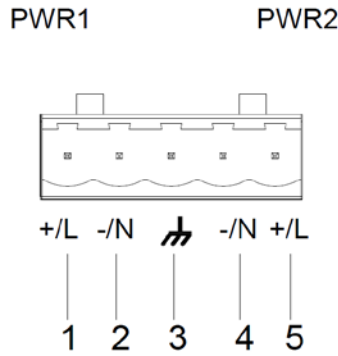


Figure 24 5-Pin 5.08mm-Spacing Plug-in Terminal Block (socket)

Table 7 lists the pin definitions of the 5-pin 5.08mm-spacing plug-in terminal block.

Table 7 Pin Definitions of 5-Pin 5.08mm-Spacing Plug-in Terminal Block

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



Caution:

When 18DC power supply is used, only pins 1, 2, and 3 of the 5-pin 5.08mm-spacing plug-in terminal block can be connected. Do not use pins 4 and 5.

● **Wiring and Mounting**

Step 1: Ground the device properly according to section 4.4.

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

Step 3: Insert the power cable into the power terminal block according to Table 7 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.

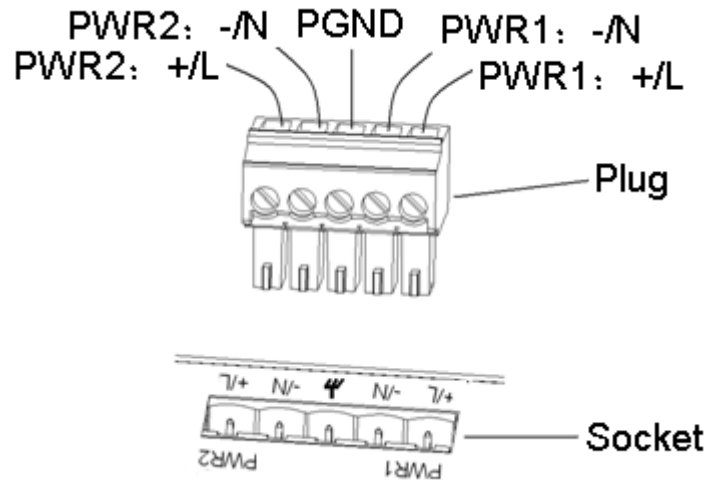


Figure 25 Cable Connection of 5-Pin 5.08mm-Spacing Plug-in Terminal Block

- 6-Pin 5.08mm-Spacing Plug-in Terminal Block

Figure 26 shows the 6-pin 5.08mm-spacing plug-in terminal block. It is applicable to 3.3DC and 5DC power supply.

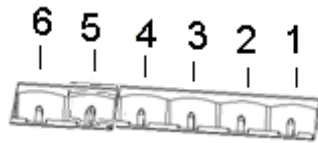


Figure 26 6-Pin 5.08mm-Spacing Plug-in Terminal Block (socket)

Table 8 lists the pin definitions of the 6-pin 5.08mm-spacing plug-in terminal block.

Table 8 Pin Definitions of 5-Pin 5.08mm-Spacing Plug-in Terminal Block

No.	Identifier	Definition
1/3	+	Positive power input
2/4	-	Negative power input
5	ACAlarm+	Positive AC alarm input
6	ACAlarm-	Negative AC alarm input

- Wiring and Mounting

Step 1: Ground the device properly according to section 4.4.

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

- Step 3: Insert the power cable into the power terminal block according to Table 8 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.

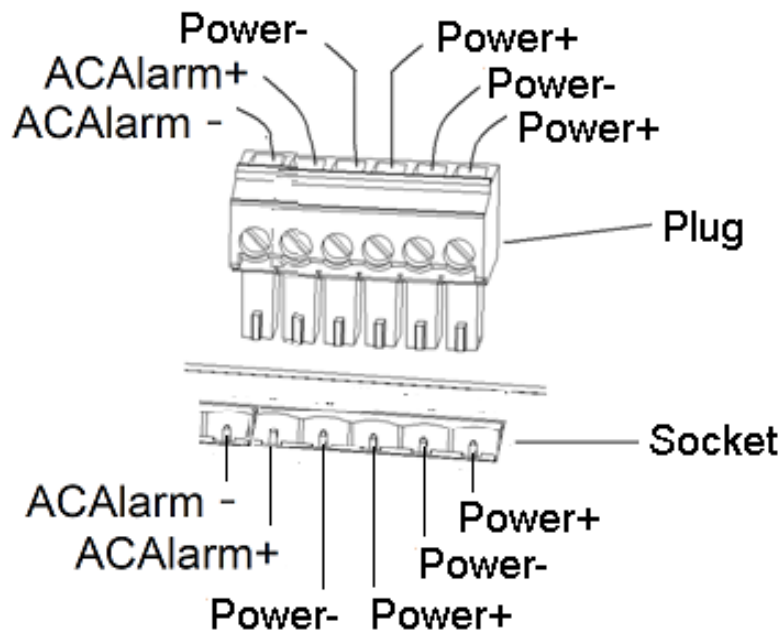


Figure 27 Cable Connection of 6-Pin 5.08mm-Spacing Plug-in Terminal Block



Caution:

The integrated device supports 12DC power input, while the bare board supports 3.3DC, 5DC, 12DC, and 18DC power input. 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 damage to humans.

4.6 Alarm Terminal Block

The device provides the alarm terminal block on the top panel 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 plug-in terminal block.

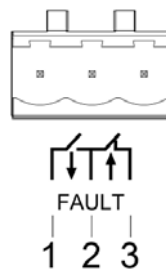


Figure 28 Alarm Terminal Block (socket)

Electrical parameters of the relay:

Max Switch Voltage: 250VAC/220VDC

Max Switch Current: 2A

Max Switch Power: 60W



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.

- **Wiring and Mounting**

Step 1: Remove the alarm terminal block from the switch.

Step 2: Secure the three cables for alarm into the alarm terminal block in the required sequence.

Step 3: Insert the alarm terminal block into its socket.

5 Reset Button

SICOM3000BA provides a Reset button on the top panel. The button can be used to restart the device or restore factory default settings.

You can restart the device by pressing and holding the button for one second.

You can restore factory default settings (excluding the IP address) by pressing and holding the button for five seconds. The default IP address is 192.168.0.2.



Caution:

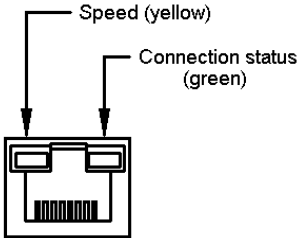
To restart the device only, do not press and hold the button for five seconds or more, because the operation will restore factory default settings.

6 LEDs

Table 9 lists the descriptions of the front panel LEDs.

Table 9 Front Panel LEDs

LED	State	Description
Single power supply LED: 3.3DC, 5DC, 18DC (When 18DC power supply is used, only pins 1, 2, and 3 of the 5-pin 5.08mm-spacing plug-in terminal block can be connected.)		
Power 1 LED	On	Power 1 is connected and operates properly.
	Off	Power 1 is not connected or operates abnormally.
Redundant power supply LEDs: 12DC		
Power 1 LED	On	Power 1 is connected and operates properly.
	Off	Power 1 is not connected or operates abnormally.
Power 2 LED	On	Power 2 is connected and operates properly.

	Off	Power 2 is not connected or operates abnormally.
Running LED		
Running LED (Run2)	Blinking (1Hz)	The CPU operates properly.
	Off	The CPU operates abnormally or does not start up; the device is starting up.
Ring LED		
Ring LED (bare board)	On	DT-Ring, master station
	Blinking	DT-Ring, slave station
	Off	No DT-Ring
1000Base-X, 10/100/1000Base-T(X) SFP slot LED		
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
10/100Base-T(X) port LEDs		
		
10/100Base-T(X) port speed LED (yellow)	On	100M working state (100Base-TX)
	Off	10M working state (10Base-T) or no connection
10/100Base-T(X) port connection status LED (green)	On	Effective port connection
	Blinking	Ongoing network activities
	Off	No effective port connection

7 Switch Access

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

7.1 Access through Console Port

Step 1: Connect the 9-pin serial port of a PC to the console port of the switch with the delivered RJ45-DB9 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 29.

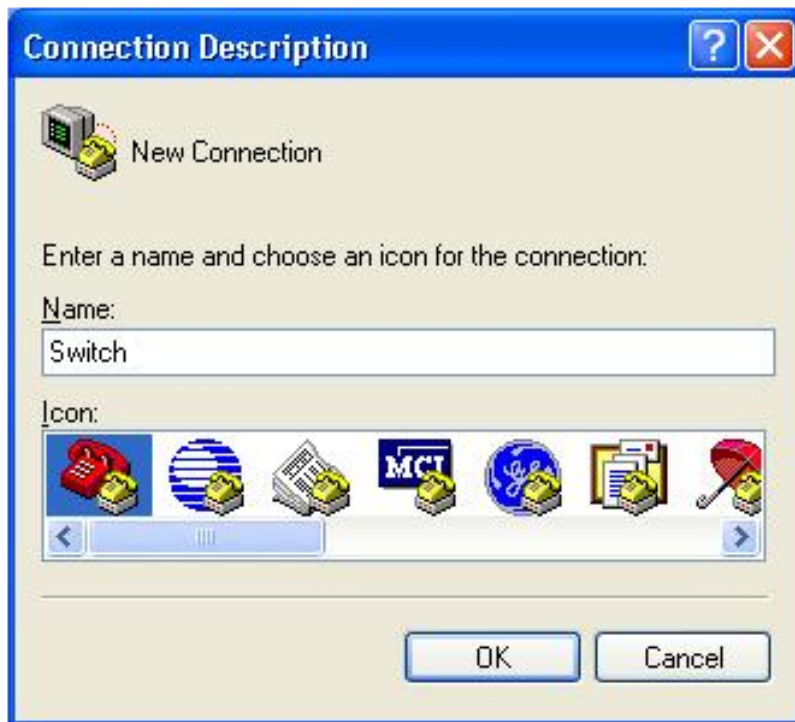


Figure 29 Creating a Connection

Step 4: Connect the communication port in use, as shown in Figure 30.



Figure 30 Selecting the Serial 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: 9600, Data bits: 8, Parity: None, Stop bits: 1, and Flow control: None), as shown in Figure 31.

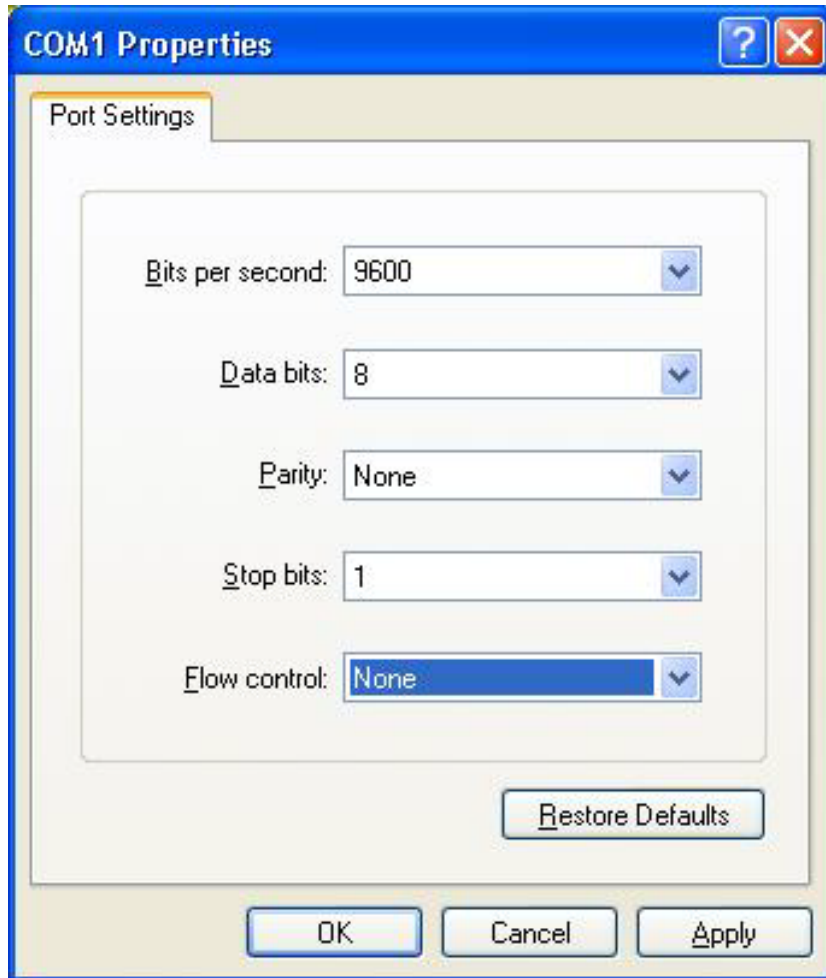


Figure 31 Port Settings

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

Table 10 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 (excluding the IP address).
Management view	SWITCH#config terminal	Enter the configuration view.

7.2 Access through Telnet

Step 1: Connect the network port of the PC to the RJ45 port of the switch with an RJ45-RJ45 cable.

Step 2: Enter "telnet IP-address" in the Run dialog box, as shown in Figure 32.

The default IP address of a Kyland switch is 192.168.0.2.

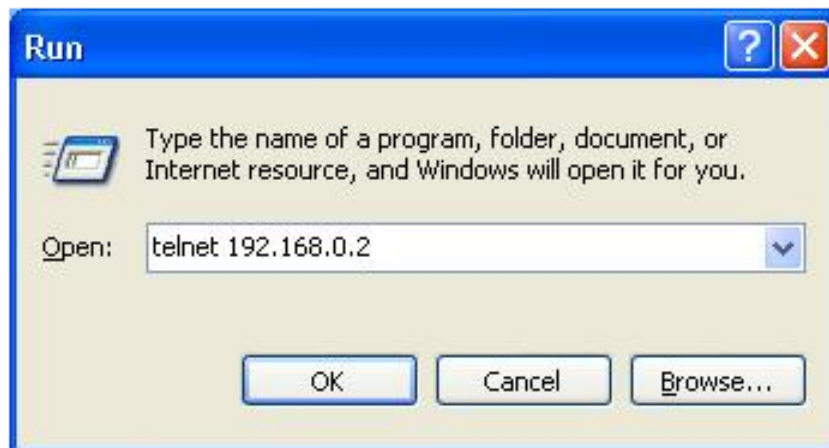


Figure 32 Access through Telnet

Step 3: Click OK. The Telnet CLI is displayed. Then you can enter commands (as shown in Table 10) to perform operations.

7.3 Access through Web

Step 1: Connect the network port of the PC to the RJ45 port of the switch with an RJ45-RJ45 cable.

Step 2: Enter the IP address of the switch in the address box of the browser.

The default IP address of a Kyland switch is 192.168.0.2. The user login interface is displayed, as shown in Figure 33. You can log in to the Web UI of the switch by user name "admin" and password "123".

Layer 2 Switch
| 中文 |

User Name :

Password :

Save the password

Serial Number : S3VG8XX

System Name : SWITCH

Location : Chongxin Mansion Building, Xijing Road 3#, Shijingshan District, Beijing

Contact : +86-10-88798888

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Figure 33 Login Dialog Box



Note:

IE8.0 or a later version is recommended.

8 Product Configuration Information

Table 11 SICOM3000BA Configuration

Model	Description	Power
SICOM3000BA-C-3GX-6T	Integrated device, conformal coating, three 1000Base-X, 10/100/1000Base-T(X) SFP slots, six 10/100Base-T(X) ports (RJ45 connector)	12DC (redundant power supply)
SICOM3000BA-C-2GX-6T	Integrated device, conformal coating, two 1000Base-X, 10/100/1000Base-T(X) SFP slots, six 10/100Base-T(X) ports (RJ45 connector)	

SICOM3000BA-EM-C-3GX-6T	Bare board, conformal coating, three 1000Base-X, 10/100/1000Base-T(X) SFP slots, six 10/100Base-T(X) ports (RJ45 connector)	3.3DC, 5DC, and 18DC (single power supply) 12DC (redundant power supply)
SICOM3000BA-EM-C-2GX-6T	Bare board, conformal coating, two 1000Base-X, 10/100/1000Base-T(X) SFP slots, six 10/100Base-T(X) ports (RJ45 connector)	3.3DC and 5DC (single power supply) 12DC (redundant power supply)

Table 12 SICOM3000BA Optional Accessories

Model	Description
DT-BGAZ-05	Panel mounting plate
Industrial Gigabit SFP Module	
IGSFP-10/100/1000Base-T(X)-RJ45	10/100/1000Base-T(X) port, RJ45 connector
IGSFP-M-SX-LC-850-0.55	1000Base-X port; multi mode, LC connector; 850nm center wavelength (CWL), 0.55km transmission distance
IGSFP-S-LX-LC-1310-10	1000Base-X port; single mode, LC connector; 1310nm center wavelength (CWL), 10km transmission distance
IGSFP-S-LH-LC-1310-40	1000Base-X port; single mode, LC connector; 1310nm center wavelength (CWL), 40km transmission distance
IGSFP-S-ZX-LC-1550-80	1000Base-X port; single mode, LC connector; 1550nm center wavelength (CWL), 80km

	transmission distance
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9 Basic Features and Specifications

Power Requirements

Rated voltage range	3.3VDC
	5VDC
	12VDC
	18VDC
Terminal block	5-pin 5.08mm-spacing plug-in terminal block
	6-pin 5.08mm-spacing plug-in terminal block

Rated Power Consumption

Rated Power Consumption	5.5W (full load), 3.5W (standby)
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Physical Characteristics

Housing	Aluminum, fanless
Installation	Integrated device: DIN-rail mounting or panel mounting
	Bare board: embedded
Dimensions (W×H×D)	75mm×140mm×123mm (integrated device, excluding the connector, DIN rail, and component for panel mounting)
	130.5mm×31.1mm×101mm (3.3DC/5DC bare board)
	134mm×61.3mm×101mm (12DC/18DC bare board)
Weight	1.0Kg (integrated device)
	0.6Kg (bare board)

Environmental Limits

Operating temperature	-40℃~+85℃
Storage	-40℃~+85℃

temperature	
Ambient relative humidity	5%~95% (non-condensing)
MTBF	
MTBF	384,273 hours
Warranty	
Warranty	5 years

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

<http://www.kyland.cn/>