SICOM3000S Industrial Ethernet Switch

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 notice 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 the power supply and contact Kyland:

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

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1 Product Overview

SICOM3000S series switch is a two-layer network management PoE industrial Ethernet switch developed by Kyland for petroleum and petrochemical, factory automation, intelligent transportation, rail transit and other industries.

This series of switches supports DIN rail mounting, provides RJ45 management port, supports Console, Telnet, Web management; Reset button has one-click recovery function.

This switch can be configured with up to 4 1000Base-X, 10/100/1000Base-T(X) SFP ethernet interfaces and 8 100/1000Base-T(X) POE ethernet interfaces. 100/1000Base-T(X) ethernet interface supports IEEE802.3at (Compatible IEEE802.3af), The switch can provide a maximum of 240W (L16) power. The specific configuration is as follows.

Model	SICOM3000S-4GX8GP-L16-L16 SICOM3000S-4GX8P-L16-L16			
number	SICOM3000S-2GX4GP-L16-L16 SICOM3000S-2GX4P-L16-L16			
Code definition	Code Selection			
	4GX8GP、4GX8P、2GX4GP、2GX4P			
	Description:			
	4GX8GP: 4 1000Base-X, 10/100/1000Base-T(X) SFP interface; 8 10/100/1000 Base-			
	T(X) POE electrical interface;			
Ports	4GX8P: 4 1000Base-X, 10/100/1000Base-T(X) SFP interface; 8 10/100 Base-T(X)			
FOILS	POE electrical interface;			
	2GX4GP: 2 1000Base-X, 10/100/1000Base-T(X) SFP interface; 4 10/100/1000Base-			
	T(X) POE electrical interface;			
	2GX4P: 2 1000Base-X, 10/100/1000Base-T(X) SFP interface; 410/100 Base-T(X)			
	POE electrical interface;			
PS1-PS2:	L16-16: 45V-49V (dual redundancy), support 802.3af;			
power input	L16-16: 50V-57V (dual redundancy), support 802.3at.			

Table 1 SICOM3000S Configuration Table

2 Structure and Interface



Caution:

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

switch performance.

2.1 Front Panel

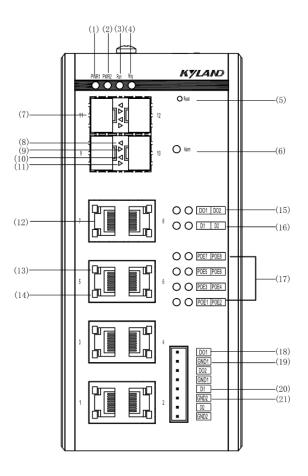


Figure 1 Front panel

- (1) PWR 1 LED (2) PWR 2 LED
- (4) Ring status LED (5) Reset button
- (7) 1000M SFP interface
- (9) 1000M SFP interface link status LED (green)
- (11) 1000M SFP interface link status LED (green)
- (13) 10/100/1000Base-T(X) ethernet interface speed LED (yellow)

- (3) Run LED
- (6) Alarm LED
- (8) 1000M SFP interface speed LED (yellow)
- (10) 1000M SFP interface speed LED (yellow)
- (12) 10/100/1000Base-T(X) ethernet interface
- (14) 10/100/1000Base-T(X) ethernet link status LED (green)

(15) output signal LED (16) input signal LED

(18) output signal (19) output GND interface

(21) input GND

2.2 Top Panel

(17) POE output LED

(20) input signal interface

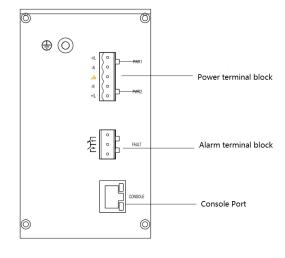


Figure 2 Top panel

3 Mounting

3.1 Dimension

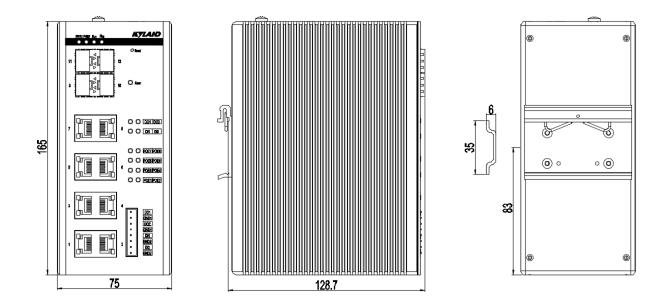


Figure 3 DIN-rail mounting dimension (mm)



Caution:

- As part of the heat dissipation system, the switch housing becomes hot during operation. Please do not cover the switch housing when the switch is running.
- The figures in this manual are only for reference.

3.2 Mounting Modes and Steps

The switch supports DIN-rail mounting. Before installation, make sure that the following requirements are met.

1) Environment: temperature (-40 $^{\circ}$ C to 85 $^{\circ}$ C), ambient relative humidity (5% to 95%, non-condensing).

2) Power requirements: Verify that the operating voltage matches the voltage range identified on the switch.

3) Grounding resistance: $<5\Omega_{\odot}$

4) Avoid direct sunlight, away from heating sources or areas with strong electromagnetic

interference.

5) The installation environment should meet the requirements of the authority, do not touch the equipment directly by hand, avoid causing personal injury.

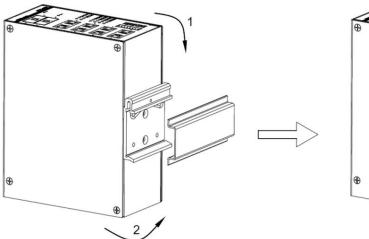
6) Only professionals or trained and qualified personnel can perform installation, replacement and maintenance operations for this switch.

3.3 DIN Mounting

• DIN-rail mounting

Step 1: Select the mounting position for the switch and ensure enough space and smooth heat dissipation.

Step 2: Clamp the top of the rail seat on the DIN rail, slightly force up the bottom of the device, rotate the device follow arrow 2 as below figure, ensure the DIN rail reliably fits in the connecting seat.



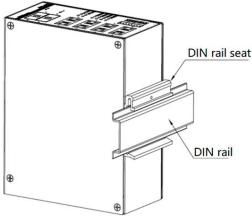
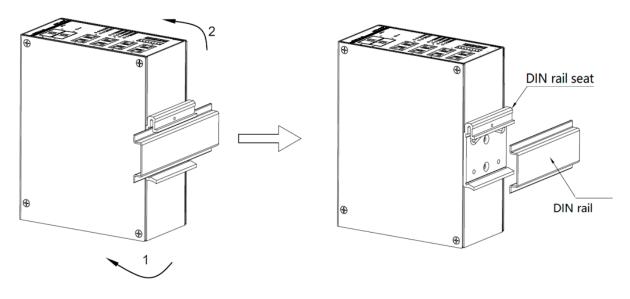
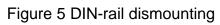


Figure 4 DIN-rail mounting

- DIN-rail dismounting
- Step 1: As shown in the following figure, press the device downward and move the device in direction 1 until the bottom of the device is detached from the DIN rail.
- Step 2: Pull the device upward and move the device in direction 2 until the device is removed from the DIN rail completely.





4 Connection

4.1 10/100/1000Base-T(X) ethernet port

10/100/1000Base-T(X) Ethernet port uses standard RJ45 connector. The port supports self-adaptive and it can be automatically configured to 10M/100M/1000M, full or half duplex mode. The port can also support auto MDI/MDI-X, that is connect the port to a terminal or network device with a straight-through or cross-over cable.

• Pin Definition

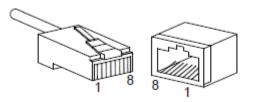


Figure 6 RJ45 PIN number

PIN	MDI-X signal name	MDI signal name
1	Receive Data+ (RD0+)	Transmit Data+ (TD0+)
2	Receive Data- (RD0-)	Transmit Data- (TD0-)
3	Transmit Data+ (TD1+)	Receive Data+ (RD1+)
4	Receive Data+ (RD2+)	Transmit Data+ (TD2+)
5	Receive Data- (RD2-)	Transmit Data- (TD2-)
6	Transmit Data- (TD1-)	Receive Data- (RD1-)
7	Transmit Data+ (TD3+)	Receive Data+ (RD3+)
8	Transmit Data- (TD3-)	Receive Data- (RD3-)
Note:		·

"+" and "-" indicate level polarities.

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Wiring Sequence

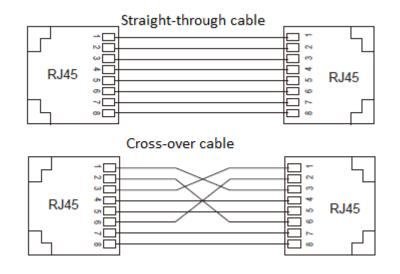


Figure 7 10/100Base-T(X) RJ45 Connection Using Straight-through/Cross-over Cable



Note:

The color of the cable for RJ45 connector follow standard 568B (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 POE Function

This device power the external PD (Power Device) through 10/100 Base-T (X) or 10/100/1000 Base-T(X) ethernet interface as PSE (Power Sourcing Equipment). 10/100Base-T(X) and 10/100/1000Base-T(X) ethernet port support IEEE802.3at (compatible IEEE802.3af), each POE port supplies up 30W power, L16-L16 supply up 240W powe.

1、POE definition

POE (Power over Ethernet) means that a device uses twisted-pair wires to power an external PD (power device) through an ethernet interface. A maximum power supply distance is 100 m.

2、POE power supply mode

This device supports to power supply to PD over data signal wire.

Table 3 RJ45 PIN definition

PIN	MDI-X signal name	MDI signal name	POE power supply
-----	-------------------	-----------------	------------------

RJ45 interface					
	Transmit/Receive	Data	Transmit/Receive	Data	N
1	(TRD1+)		(TRD0+)		V-
2	Transmit/Receive	Data	Transmit/Receive	Data	V-
2	(TRD1-)		(TRD0-)		V-
3	Transmit/Receive	Data	Transmit/Receive	Data	V+
3	(TRD0+)		(TRD1+)		V+
4	Transmit/Receive	Data	Transmit/Receive	Data	
4	(TRD3+)		(TRD2+)		-
5	Transmit/Receive	Data	Transmit/Receive	Data	
5	(TRD3-)		(TRD2-)		-
6	Transmit/Receive	Data	Transmit/Receive	Data	V+
0	(TRD0-)		(TRD1-)		
7	Transmit/Receive	Data	Transmit/Receive	Data	
	(TRD2+)		(TRD3+)		
8	Transmit/Receive	Data	Transmit/Receive	Data	
.	(TRD2-)		(TRD3-)		
Note:					
"+" and "-"	' indicate level polaritie	es.			

4.3 1000Base-X, 10/100/1000Base-T(X)SFP interface

1000Base-X,10/100/1000Base-T(X)SFP interface (gigabit SFP interface) 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 4 SFP optical/electrical modules

Model number Interface	MM/SM	Connector	Wavelength	Distance
------------------------	-------	-----------	------------	----------

IGSFP-M-SX-LC-850-0.55	1000Base-X	MM	LC	850nm	0.55km
IGSFP-S-LX-LC-1310-10	1000Base-X	SM	LC	1310nm	10km
IGSFP-S-LH-LC-1310-40	1000Base-X	SM	LC	1310nm	40km
IGSFP-S-ZX-LC-1550-80	1000Base-X	SM	LC	1550nm	80km



Note:

The switch support optical power detection of SFP port, this function needs SFP module with DDM, if you want to get more detailed information, please contact market or technical engineer.

4.3.1 SFP optical module

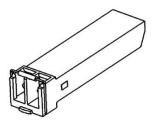


Figure 8 SFP optical module

SFP optical module interface adopts standard LC fiber connector, each interface is divided into transmit port (TX port) and receive port (RX 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 below figure.



Figure 9 SFP optical module connection

• 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.

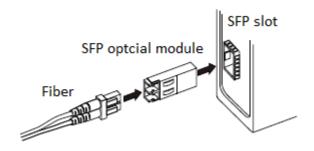


Figure 10 Connecting the SFP Optical Module

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

1. Insert the two connectors at one end of fibers into the two interfaces of SFP module, and then insert the two connectors at the other end of fibers into the two interfaces at the corresponding end.

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 over fiber. The laser meets the requirements of level 1 laser products. Do not look directly at the fiber port to avoid to harm to your eyes when device is powered on.

• For SFP module which transmission distance is longer than 60km, do not use a short fiber (<20km) to connect to avoid the SFP module is brunt since the optical power is saturation.

4.4 Console Port

4.4.1 RJ45 Console Port

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



Figure 11 Console port

• DB9-RJ45 Console Cable

One end of a DB9-RJ45 console 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.

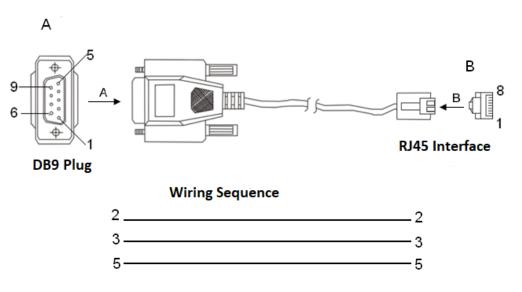


Figure 12 Wiring Sequence of DB9-RJ45 Console Cable

Table 5	Pin Definitions of	f DB9 Port (9-Pin	Serial Port) and R	J45 Port (Console Port)
---------	--------------------	-------------------	--------------------	-------------------------

DB9 Port (9-Pin Serial Port)		RJ45 Port (C	onsole 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)

4.5 Grounding

Normal grounding of device is important for lightning protection and anti-interference, so the user must connect the ground wire correctly. and ground before power on, and then disconnect the ground wire after power off. The switch provides a grounding screw on the top panel for chassis grounding. After crimping one end of the grounding cable to a cold pressed terminal, fix the grounding screw and connect the other end to the earth firmly.



Note:

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

4.6 Power Terminal Block

The power terminal is located on the cover plate of the device, and the power cord is connected to the terminal block to supply power to the device. This device supports redundant power input and adopts 5 core 5.08 mm spacing plug-in terminal block. when any one of the power supply failure, the device can run normally without interruption, improve the reliability of network operation.



说明:

- Power cord cross-sectional area should be above 0.75mm² (max cross-sectional is 2.5mm²); grounding resistance<5Ω.
- Copper conductor must be used for field wiring and the temperature should meet 75 °C.
- 5-Pin 5.08mm-Spacing Plug-in Terminal Block

Figure 13 5-Pin 5.08mm-Spacing Plug-in Terminal Block (socket)

Table 6 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

Wiring and Mounting

Step 1: Ground the device properly according to section 4.5.

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

Step 3: Insert the power wires into the power terminal block according to Table 6 and fix the wires.

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

Step 5: Connect the other end of the power wires to the external power supply system according to the power supply requirements of the device. View the status of the power LEDs on the front panel. If the LEDs are on, the power is connected correctly.

Wiring and mounting should meet the following specifications

Table 7 Wiring and Mounting Specifications

Terminal Block type	Torque requirements	Cross-sectional area (AWG)	
Plug-in Terminal Block	4.5-5.0 lb-in	12-24	



Caution:

• Before connecting the device to power supply, make sure that the power input meets the power requirement.

• To meet the UL requirements, the power supply of the device should conform the Class 2.



Warning:

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

4.7 Alarm Terminal Block

The alarm terminal block is located on the cover plate of the device for alarm output. When the device works normally, the alarm relay normally-open contact is on, and normallyclose contact is off; When an alarm occurs, normally-open contact is off and normally-close contact is on. The normally-open and normally-close contact of delay is output through the 3pin 5.08-spacing plug-in terminal blocks.

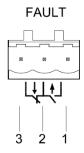


Figure 14 3-Pin 5.08mm-Spacing Plug-in Terminal Block (Socket)

Electrical parameters of relay:

Maximum voltage: 250VAC/220VDC

Maximum current: 2A

Maximum power: 60W

Maximum insulation withstand voltage: 2KV



Note:

- Pin 1 and Pin 2 is a normally-open contact, Pin 2 and Pin 3 is a normally-close contact. When the device works normally, it is close between Pin 1 and Pin 2, it is open between Pin 2 and Pin 3; when an alarm occurs, it is open between Pin 1 and Pin 2, it is close between Pin 2 and Pin 3.
- Copper conductor must be used for field wiring and the temperature should meet 75°C.
- Wiring and Mounting

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

Step 2: Fix the three wires for alarm into the alarm terminal block according to the above note.

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

Wiring and mounting should meet the following specifications

Table 8 Wiring and Mounting Specifications

Terminal Block type	Torque requirements	Cross-sectional area (AWG)
Plug-in Terminal Block	4.5-5.0 lb-in	12-24

4.8 DI/DO Interface

The input and output terminals are located on the lower right side of the front panel, which provides two low drive input signal acquisition, high drive output ability, the input is optocoupler isolated acquisition, and the output is normally-open and normally-close output.

When device works normally, the delay output terminal block (DO/GND) is normally-open; when valid signal is received by input end, the delay output close.

Input Voltage	Availability	Output status
0-1.0VDC	Invalid	Normally-open
1.2-30VDC	Valid	Output close

(1) Input electrical parameters:

Input Voltage	0-30VDC
---------------	---------

(2) Output electrical parameters:

Rated load	AC125V 0.5A;
	DC30V 2A
Rated current	2A

5 Reset

The reset button is located in the front panel of the device and has the function of restarting and restoring the default configuration. Continue to press the reset button 0.5~3 seconds then release to complete the device restart. Press the reset button continuously for more than 3 seconds then release to restore the default configuration and restart.



Caution:

If you want to restart the device, be careful not to press the reset button for more than 3 seconds

to prevent the device restore the default configuration.

6 LED Status

status LED (Green)

LED	status	Description	
Power 1 LED	ON	Power 1 is connected and run normally.	
	OFF	Power 1 is not connected or running abnormally.	
Power 2 LED	ON	Power 2 is connected and run normally.	
	OFF	Power 2 is not connected or running abnormally.	
	Blinking	The CPU run normally	
Run LED	ON	The device is starting up	
	OFF	The CPU does not start up	
	ON	Master (DT-Ring mode)/Root (DRP mode)	
Ring status LED	Blinking	Slave (DT-Ring mode)/B-Root or Normal (DRP mode)	
	OFF	Non-ring mode	
Alarm LED	ON	Alarm	
	OFF	No alarm	
1000M SFP speed status LED	ON	1000M working status (100Base-X)	
(Yellow)	OFF	No connection	
1000Base-FX or 1000M SFP link	ON	The valid network connection is established	
	Blinking	Network activity	
status LED (Green)	OFF	The valid network connection is not established	
Speed/Yellow Link status/Green			
10/100Base-T(X) Ethernet port speed	ON	100M working mode (100Base-TX)	
LED (Yellow)	OFF	10M working mode (10Base-T) or no connection	
10/100Base-T(X) Ethernet port link	ON	The valid network connection is established	

Blinking

Network activity

Table 9 LEDs description

	OFF	The valid network connection is not established
10/100/1000Base-T(X) Ethernet port	ON	1000M working mode (1000Base-T)
speed LED (Yellow)	OFF	10/100M working mode or no connection
10/100/1000Page T(X) Ethernet part	ON	The valid network connection is established
10/100/1000Base-T(X) Ethernet port link status LED (Green)	Blinking	Network activity
	OFF	The valid network connection is not established
Ethernet port POE LED-POE	ON	POE port supply power normally
	Blinking	POE port supply power abnormally
	OFF	POE port no power

Access

7 Access

You can access the switch in following three ways:

7.1 Access through Console Port

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 Hyper Terminal in Windows OS. On the Windows desktop, click Start \rightarrow

All Programs \rightarrow Accessories \rightarrow Communications \rightarrow Hyper Terminal.

Step 3: Create a new connection "Switch", as shown in the below figure.

连接描述	? 🔀
新建连接	
输入名称并为该连接选择图标: 名称 (图):	
Switch	
图标(L):	
	2
确定即	润

Figure 15 Create new connection

Step 4: Select the correct communication port to connect, as shown in the below figure.

连接到	? 🔀
Switch	
输入待拨电话的详	细信息:
国家(地区)(C):	美国 (1)
区号(图):	
电话号码(2):	
连接时使用(图):	CO/AS
	() 一

Figure 16 Select correct communication port



Note:

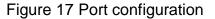
Right-click [My Computer] and select [Property]. Click [Hardware] \rightarrow [Device Manager] \rightarrow [Port]

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 the below figure.

0 ■3 属性 端口设置		
毎秒位数(B):	115200	~
数据位 (2):	8	~
奇偶校验 (P):	无	~
停止位 (S):	1	~
数据流控制 (2):	无	V
L	还见	夏为默认值 (B)
	确定 取	消 应用 (4)



Step 6: Click OK to enter the CLI interface. Then the below commands can be used to

perform operations.

View type	Command	Description
Management view	SWITCH#show interface vlan 1	Query the current 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 configuration
Management view	SWITCH#config terminal	Enter Global Configuration Mode

7.2 Access through Telnet

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

Step 2: On the Windows desktop, click Start and Run. Enter "telnet IP address" in the run dialog box. For example, if the IP address of the device is 192.168.0.2 (default IP address of the Kyland switch), enter "telnet 192.168.0.2" in the dialog box.



Figure 18 Access through Telnet

Step 3: Click OK and you can run the commands in Table 10 to perform operations in the Telnet CLI.

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. You can log in to the Web management interface by using default user name "admin" and password "123".



Note:

• IE8.0 or above version is recommended

• For details about how to access the switch and other operations, please refer to the Web operation manual in the delivered CD.

8 Basic Features and Specifications

Power supply				
Power identifier	Rated Input Voltage Range	Maximum Input Voltage Range		
L16	48VDC(802.3af)	45-50VDC(802.3af)		
	53VDC(802.3at)	51-56VDC(802.3at)		
Terminal Block	L16: 5-pin 5.08mm spacing plug-in terminal block			
Rated Power Consumption				
Rated power consumption	<15W (no PoE)			
Physical				
Housing	Metal, no fan			
IP level	IP40			
Mounting	DIN-rail mounting			
Dimensions (W×H×D)	75mm×165mm×128.7mm (excluding connector, DIN rail)			
Weight	1.1KG			
Environment				
Operation temperature	-40℃~+75℃			
Storage temperature	-40° ℃~ +85° ℃			
Ambient relative humidity	5% \sim 95% non-condensing			
Warranty				
Warranty	5 years			

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