

**5/8 Ports  
Gigabit Ethernet Switch**

**User's Guide**

**VER:1.0**

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## 1 INTRODUCTION

### 1.1 Unpacking

Open the box and carefully unpacks its contents. The box should contain the following items:

- One Gigabit Switch
- One external power adapter
- User's Guide.

If any item is found missing or damaged, please contact your dealer for replacement.

### 1.2 Front Panels

For detail of the LED indicators in the front panel of the switch, refer to the LED Indicator section for detailed information about each of the 5/8 ports switch's LED indicators.

### 1.3 Rear Panel

There are 5/8 10/100/1000Mbps RJ45 port Jacks and one DC Power Jack in.

⚠ Attention: Please use power adapter original from the supplier, otherwise please consult with the supplier. An improper adapter may cause permanent damage to the switch.

### 1.4 LED Indicators

The LED indicators of the Switch include Power 、 Link/ACT and 1000M. The LED indicators are used to facilitate monitoring and troubleshooting of the Switch. The following shows the LED indicators for the Switch along with explanation of each indicator.

LED Indicator	Color	Status	Description
POWER	Green	Light	This indicates the Switch is turned on
	—	Extinguish	If this indicator is not light, check the AC power connector to ensure proper insertion of the power cord and the power switch is turned on.
LINK/ACT	Green	Light	The port is connected to a Ethernet station
	Green	Blinking	The port is transmitting or receiving data
1000M	Green	Light	The port is connected to a 1000Mbps Ethernet station
	—	Extinguish	The port is connected to a 10/100Mbps Fast Ethernet station

### 1.5 Features

The 5/8-port Gigabit Ethernet Switch provides you with a high-performance, low-cost, easy-to-use, seamless and standard upgrade to boost your old network to 1000Mbps. Increase the speed of your network server and backbone connections make Gigabit a reality. Power users in the home, office, workgroup, or creative production environment can now move large,

bandwidth-intensive files faster. The 5/8 ports switch combines large dynamic memory allocation with store-and forward switching to ensure that the buffer is effectively allocated for each port, while controlling the data flow between the transmit and receive nodes to guarantee against all possible packet loss. It can detect 10M/100M/1000M and full duplex/half duplex mode, plug-and-play and no configuration is required.

## 2 PERFORMANCE FEATURES

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3ab standards
2. NWAY Auto-negotiation support, Auto-Sense the transmission speed, half/full duplex, avoiding the complicate procedure of settings, plug and play.
3. 5/8 ports 10/100/1000M Auto-Sense RJ45 ports supporting Auto-MDI/MDIX
4. Supports IEEE802.3x flow control for full-duplex model and backpressure for half-duplex transfer model
5. Provide 10/16G backplane bandwidth, support non-blocking wire-speed transfer.
6. Adopt store and forward structure, MAC address auto learning, integration

## 2.1 Performance Features

General features	
Criterion	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-TX/FX Fast Ethernet IEEE802.3ab Gigabit Ethernet
Protocol	CSMA/CD
Topological structure	Star-network
Network Twisted-pair	10BASE-T: Cat. 3 or above UTP/STP 100Base-TX: Cat. 5 UTP/STP 1000Base-T: Cat. 5 or 5e UTP/STP
Port amount	8/5 10/100/1000Mbps ports
Physics and setting features	
AC INPUT	External power adapter
POWER	5 Watts maximum (5 ports) 8 Watts maximum (8ports)
Temperature	Operation:0° C~50° C Storage:-30° C~60° C
Humidity	5%~90% no coagulate
Performance	
Transfer mode	Store and forward
MAC Address Table	8K
Packet Filtering/Forwarding Rate	14880pps (10Mbps) per port
	148800pps (100Mbps) per port
	1488000pps (1000Mbps) per port
MAC Address learning	Auto learning and aging

### 3 INSTALLATION

- Convenience receptacle and equipment should be within 1.82 meters.
- Check power supply to assure safe Connection.
- Affirm to have the ventilation that is enough, can be very good dissipates heat. Not lay up the heavy object on switch.

### 3.1 SWITCH to PC

A PC can be connected to the switch via a Cat. 5 or 5e UTP/STP cable. The PC can be connected to any of the 5/8 ports.

### 3.2 SWITCH TO SWITCH

Like connection with the hub, the connection is accomplished from any port of the switch to the 5/8 ports Gigabit switch.

## 4 APPENDIX

The standard RJ-45 receptacle/connector

RJ-45 Connector pin assignment	
Pin No.	Contact
1	A_TX + (Transmit)
2	A_TX - (Transmit)
3	B_RX + (receive)
4	C_TX+ (Transmit)
5	C_TX+ (Transmit)
6	B_RX - (receive)
7	D_RX - (receive)
8	D_RX - (receive)

The standard cable, RJ-45 pin assignment

## **FCC WARNING**

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment



and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for and radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.