

# SWITCH, 16 GIGABIT PORTS ART. IPSWC160A



Please read this manual thoroughly before use and keep it for future reference

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# **Product Introduction**

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Congratulations on your purchase of the 16-Port 10/100/1000Mbps Green Switch! The 10/100/1000Mbps switch is an easy-to-install network switch which helps you to extend your network structure quickly and reliably. All Sixteen ports are auto speed negotiating, and have automatic MDI/MDI-X crossover detection, so you don't have to worry about the cable type. Each port independently negotiates for best speed and half- or full-duplex mode. Fast store-and-forward switching prevents damaged packets from being passed on into the network. Support IEEE802.3az energy efficient Ethernet (EEE), reduce power consumption by detection cable length and operating loading, auto adjust signal intensity, Reduce energy consumption, protect the environment.

Before you begin the installation, please check the items of your package:

Package Contents:

- 16-Port 10/100/1000Mbps Green Switch
- Power Cord
- User Manual
- Brackets ,Screws, Rubber feet

## **1 Hardware Description**

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### **1.1 Hardware Interface**

- 16-Port 10/100M/1000Mbps auto-negotiation RJ45 Ports
- All ports support auto MDI/MDIX, no need to use cross-over cables

### **1.2 Panel**

#### **1.2.1 Front Panel**

The front panel of the Switch consists of LED indicators, and 16 10/100M/1000Mbps ports. The figure below shows the front panel of the Switch.

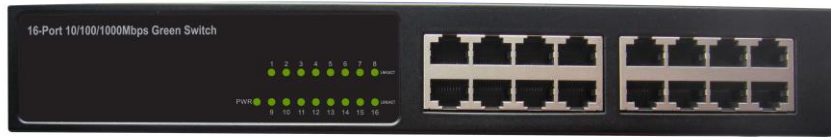


Figure 1-1 Front Panel view of the Switch

- 10/100M/1000Mbps Ports (Port 1~16): these ports support 10/100/1000Mbps, and can operate in Half/Full Duplex transfer modes. These ports also support automatic MDI/MDI-X crossover detection, giving true “plug and play” capability.
- LED Indicators: comprehensive LED indicators display the status of the Switch and the network (see Section 1.2.3).

### 1.2.2 Rear Panel



Figure 1-2 Rear Panel View of the Switch

- AC Power Connector: Supports AC 100~240V, 50~60Hz.

### 1.2.3 LED Indicators Information

The front panel LEDs provide instant status feedback and help monitoring and troubleshooting when needed.



Figure 1-3 Front Panel View of the Switch

- **POWER: Power Indicator**

LED	Color	Status	
		Solid	Off
PWR	Green	The Switch is power-on	No power

- **Port 1~16 10/100/1000Mbps Status LEDs**

LED	Color	Status		
		Solid	Blinking	Off
LINK/ ACT	Green	The respective port is connected but no activities on the 10/100/1000Mbps Ethernet network	The port is transmitting or receiving data at 10/100/1000Mbps	No link

## **2 Installing the switch**

The site where you place the switch may greatly affect its performance.

### **2.1 Installation**

Please follow the below guidelines to install the switch:

- Please install the switch in a fairly cool and dry place. Please refer to the Technical Specifications for the acceptable temperature and humidity operating ranges.
- Please install the switch on a sturdy, level surface that can support its weight.
- When connecting the power cord to the switch and the power outlet, the distance should be no more than the length of power cord.
- Please leave at least 10cm (about 4 inches) of space at the front and rear of the switch for ventilation.

### **2.2 Desktop or Shelf Installation**

When installing the switch on the desktop or shelf, please attach the rubber feet to the switch. Peel off the protective paper on the pads and attach them to the bottom of the switch (one at each corner).

### **2.3 Rack Installation**

The switch is rack-mountable and can be installed on an EIA 11-inch equipment rack. To do this, first install the mounting brackets on the switch's side panels (one on each side), secure them with the included screws and then use the screws provided with the equipment rack to mount the switch.

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## 2.4 Power ON the switch

The switch has a universal power supply ranging from 100V to 240V AC, 50 ~ 60Hz power source. The AC power connector is located at the rear of the unit. The switch's power supply will adjust to the local power source automatically.

### NOTE:

Do not cover or put anything on or surrounding the switch while the Switch is operating.

## 3 Connecting the switch

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This section describes how to connect the switch to your 10/100/1000Mbps Ethernet network.

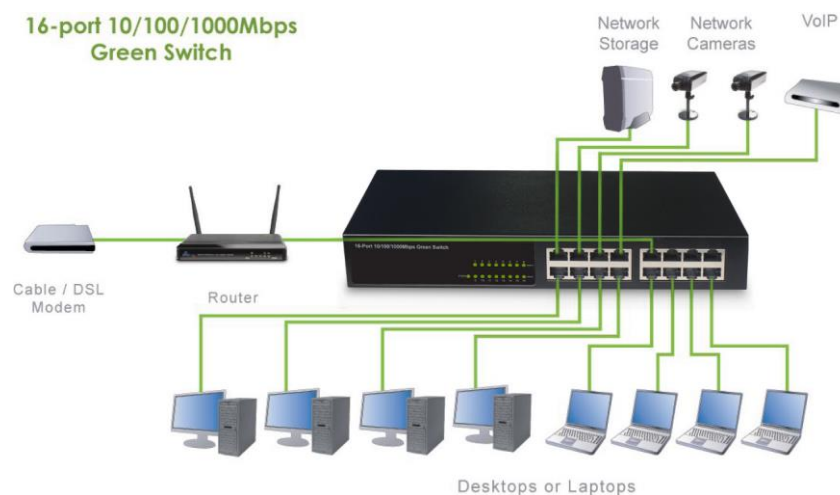


Figure 3-1 Connecting the Switch

Your network device (i.e. router, computer, switch, IP Camera, VoIP) can be connected to any port of the switch via a two-pair UTP Category 5 Cable or Category 5E Cable. If the LED indicators do not light up after making a proper connection, check your network device, the cable, the switch conditions and connections.

## 4 Troubleshooting

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1. Power LED is not lit
  - Check if the power cable is properly connected to the power outlet. Make sure the power cable is firmly plugged into the power socket of the switch.
2. Link/Activity is not lit when connect to 10/100/1000Mbps device
  - Check the power switch of the network device attached to the switch; make sure it is

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turned ON.

- Check the network cable; make sure it is properly connected to the switch and the network device.
- Check the network cable; make sure the UTP cables comply with the specifications described in section 5.

## **5 Technical Specifications**

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### **Standards**

- IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE802.3ab 1000BASE-T, IEEE 802.3x Flow Control and IEEE 802.3az(EEE – Energy Efficient Ethernet)

### **Network Cables**

- Ethernet (10Base-T) cables: 2-pair UTP Cat. 3, 4, 5; up to 100m
- Fast Ethernet (100Base-T) cables: 2-pair UTP Cat. 5; up to 100m
- Giga Ethernet (1000Base-T) cables: 4-pair UTP Cat.5E; up to 100m

### **Ports**

- 16 x 10/100/1000Mbps Auto-Negotiation RJ45 Port

### **Access Method**

- CSMA/CD

### **Transmission Method**

- Store and Forward

### **MAC Address Table**

- 8K

### **Jumbo Frame**

- 9K byte jumbo packet length forwarding at wire speed

### **Data Transfer Rate\*\***

- Ethernet: 10/20Mb/s – Half/Full-Duplex
- Fast Ethernet: 100/200Mb/s – Half/Full Duplex
- Giga Ethernet 1000/2000Mb/s – Half/Full Duplex

### **LED**

- Power: Green
- Link/Activity: Green

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## Rack Mount

- 11-Inch Rack-Mountable with mounting kits

## Dimensions

- L x D x H: 280 x 180 x 44.3 mm (11 x 7 x 1.74 in)

## Weight

- 1460 g

## Physical and Environmental

- Power Input: 100~240V AC, 50~60Hz
- Operation Temperature: 0 °C ~ 40°C
- Storage Temperature: -40°C ~ 70°C
- Humidity: 5% ~ 90% RH, non-condensing

\*\*Network conditions and environmental factors as well as network overhead can lower actual data throughput rate.

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