

FCC Certifications



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.

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.

CE Mark Warning



This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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Introduction

This device is a powerful, high-performance Fast Ethernet switch, with all 16 ports capable of 10 or 100Mbps auto-negotiation operation (NWay), which means the switch could automatically negotiate with the connected partners on the network speed and duplex mode without bandwidth congestion issue. It is ideal for micro-segmenting large networks into smaller, connected subnets for improved performance, enabling the bandwidth demanding multimedia and imaging applications. This switch also supports auto MDI / MDI-X function. Each port could be used to connect to another switch or hub without crossover RJ-45 cable.

Store-and-forward switching mode promises the low latency plus eliminates all the network errors, including runt and CRC error packets. To work under full-duplex mode, transmission and reception of the frames can occur simultaneously without causing collisions as well as double the network bandwidth. And polarity correction function can correct polarity errors in the 10 BASE-T mode.

The switch is plug and play without any software to configure and it also fully complies with all kinds of network protocols. Moreover, it supports IEEE 802.3az Energy Efficient Ethernet (EEE) ability to promise operation in Low Power Idle Mode to save power consumption.

Before you start to install the switch, check the following contents in this package:

1. One 16-port Fast Ethernet switch
2. One power cord
3. Four rubber feet
4. Wall-mount plastic and screws
5. User's manual

Key Feature

- Complies with 10M BASE-T specifications of the IEEE 802.3 standard
- Complies with 100M BASE-TX specifications of the IEEE 802.3u standard
- Supports back-pressure (half duplex) and flow control (IEEE 802.3x)
- Supports NWay protocol for speed(10/100 Mbps) and duplex mode(Half/Full) auto-detection
- Supports MDI/MDI-X auto crossover and polarity correction
- Store-and-forward architecture filters fragment & CRC error packets
- Supports 8K MAC address
- Supports 256K bytes packet buffer memory
- Supports packet length to 2048 bytes
- Supports IEEE 802.3az Energy Efficient Ethernet
- Provides a switch to turn on and turn off power
- Supports extensive LED indicators for network diagnostics

Front Panel

Please refer to the following description for front panel:



Fast Ethernet Ports:

This switch include 16 Fast twisted pair ports, each supporting auto negotiable 10/100 Mbps and auto MDI/MDIX cross over detection functions. This function provides true “plug and play” capability.

LED Definition:

LED	Status	Operation
Power	Steady Green	Power is on
	Off	Power is off
Link/Act	Steady Green	The port is connected
	Blinking Green	The port is transmitting/receiving data.
	Off	No connection

Rear Panel

Power Connector:

Plug in the female connector of the provided power cord into this connector, and the male into a power outlet. Supported input voltages range from 100-240V AC, and 50-60 Hz. The rear panel is shown as below:



Installation

This switch can be placed on your desktop directly, or mounted on the wall. The installation is a snap. Users can use all the features of the switch with simply attaching the cables and turning the power on.

Before installing the switch, we strongly recommend:

- 1.The switch is placed with appropriate ventilation environment. A minimum 25 mm space around the unit is recommended.
- 2.The switch and the relevant components are away from sources of electrical noise such as radios, transmitters and broadband amplifiers.
- 3.The switch is away from environments beyond recommend moisture.

Desktop Installation

- 1.Install the switch on a level surface that can support the weight of the unit and the relevant components, then attach the rubber feet to the bottom. The rubber feet cushion the switch and helps protect the case from scratches.
- 2.Plug the switch to the electrical source with the provided power cord.

Wall Mount

- 1.Screw the two provided screws into the wall 150 mm apart horizontally. Leave a small gap between the head of the screw and the wall. The gap should be big enough for the screw heads to slide into the screw slots and the connection cables to run down the back of the switch.
- 2.Align the holes on the back of the switch with the screws on the wall. Hang the switch on the screws.

Station Connection

Connect each station to the switch by twisted-pair cable. Plug one RJ-45 connector into a RJ-45 port of the switch, and plug the other RJ-45 connector into the station's network adapter. Power on the switch and then system is ready.

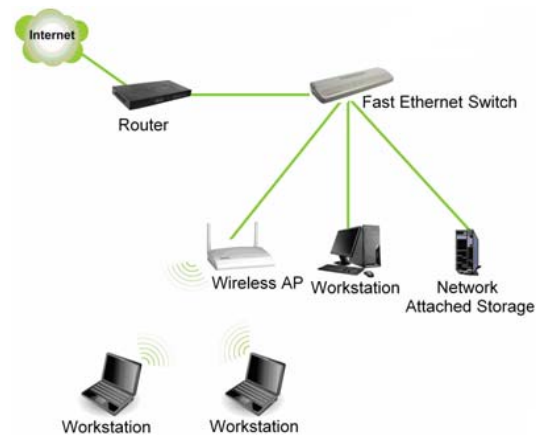
Switches Connection

In making a switch interconnection, you could use any port to connect another switch with straight or crossover cable. As all the ports support auto MDI / MDI-X function, using a straight cable to make a switch-to-switch connection is allowed.

For cable selection, refer to the following table :

Network Speed	Cable Type	Max. Length
10Mbps	Cat. 3, 4, 5 UTP/STP	100 meters
100Mbps	Cat. 5 UTP/STP	100 meters

Network Application



Product Specifications

Standard	IEEE 802.3 10 BASE-T IEEE 802.3u 100 BASE-TX IEEE 802.3az(EEE) IEEE 802.3x half duplex operation and flow control
Interface	16 10/100 Mbps RJ-45 ports
Uplink	Auto MDI/MDI-X (Auto crossover)
Network Speed	10/100 Mbps & Half duplex mode auto detection
MAC Address	8K entries
Buffer Memory	256K Bytes
Dimension	290*100*29.6 mm
Case	Plastic
Temperature	Operating: 0~40 (32°~104), Storage: -20°~ 70 (-4°~158)
Humidity	Operating: 10% ~ 90% (non-condensing) Storage: 5%~90% RH, non-condensing
Power	External power adapter 5V/1A
EMI	FCC, CE, VCCI Class A