



SW-UNM-24FE

24 Fast Ethernet Ports



User Manual

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Chapter 1 Product Introduction

Congratulations on your purchasing of the Ethernet Switch. Before you install and use this product, please read this manual carefully for full exploiting the functions of this product.

1.1 Product Overview

The Fast Ethernet Switch is the perfect way of integrating 10Mbps Ethernet and 100Mbps Fast Ethernet devices. All twenty four 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, for up to 200Mbps of bandwidth per port. Fast store-and-forward switching prevents damaged packets from being passed on into the network.

The Switch is easy to install and use. It requires no configuration and installation. It is a great selection for expanding office network.

1.2 Features

- Complies with IEEE802.3, IEEE802.3u standards
- 24 x Fast Ethernet Auto-Negotiation RJ45 ports supporting Auto-MDIX
- Supports IEEE802.3x flow control for Full Duplex mode and backpressure for half-duplex mode
- Supports MAC address auto-learning and auto-aging
- 4.8 Gbps Switching Capacity
- Store and forward Switching scheme
- Auto-negotiation ports provide smart integration between 10Mbps, 100Mbps hardware.
- LED indicators for monitoring power, link, activity
- 1U 19-inch rack-mountable metal case
- Internal universal power supply

1.3 Package Contents

Before installing the Switch, make sure that the following the "packing list" listed OK. If any part is lost and damaged, please contact your local agent immediately. In addition, make sure that you have the tools install switches and cables by your hands.

- One 24-Port 10/100Mbps Ethernet Switch
- One set of installation components
- One AC power cord
- One User Manual

Chapter 2 External Component Description

2.1 Front Panel

The front panel of the Switch consists of series of LED indicators, 24 x Fast Ethernet RJ-45 ports shown as below:



Figure 1 - Front Panel

Fast Ethernet RJ-45 ports (1~24):

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps. Each has a corresponding Link/Act LED.

LED indicators:

The LED Indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the Switch, connection or attached devices.

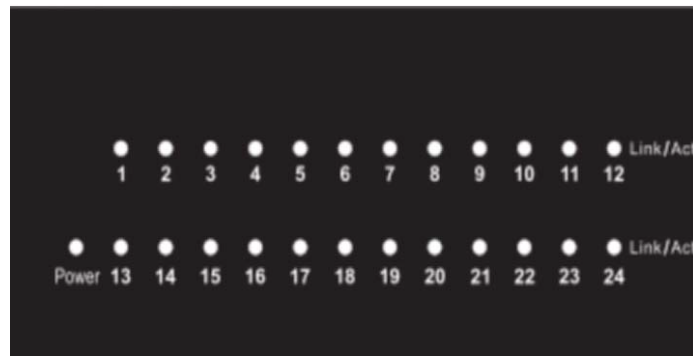


Figure 2 - LED Indicators

The following chart shows the LED indicators of the Switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
Power	Red	On	Power On
		Off	Power Off
1~24 (Link/Act)	Green	On	A device is connected to the port
		Flashing	Sending or receiving data
		Off	A device is disconnected to the port

2.2 Rear Panel

The rear panel of the Switch contains AC power connector shown as below:



Figure 3 - Rear Panel

AC Power Connector:

Power is supplied through an external AC power adapter. It supports AC 100~240V, 50/60Hz.

Chapter 3 Installing and Connecting the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

3.1 Installation

Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- Put the Switch on stable place or desktop in case of falling damage.
- Make sure the Switch works in the proper AC input range and matches the voltage labeled on the Switch.
- To keep the Switch free from lightning, do not open the Switch's shell even in power failure.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- Make sure the cabinet to enough back up the weight of the Switch and its accessories.

3.1.1 Desktop Installation

Sometimes users are not equipped with the 19-inch standard cabinet. So when installing the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.

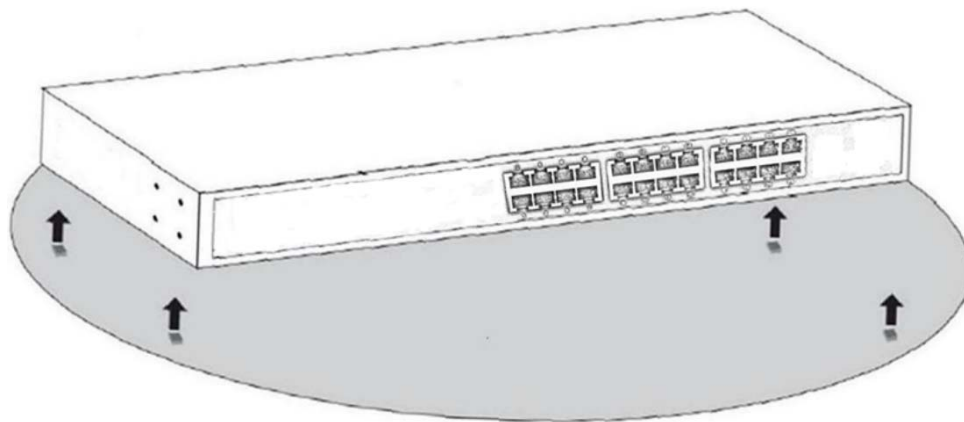


Figure 4 - Desktop installation

3.1.2 Rack-mountable Installation in 19-inch Cabinet

The Switch can be mounted in an EIA standard-sized, 19-inch rack, which can be placed in a wiring closet with other equipment. To install the Switch, please follow these steps:

- a. attach the mounting brackets on the Switch's side panels (one on each side) and secure them with the screws provided.

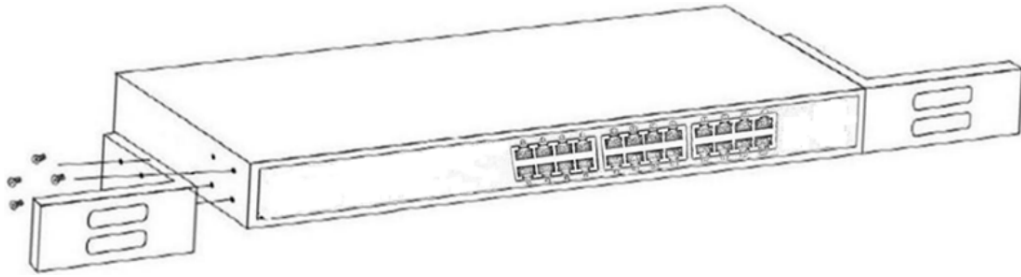


Figure 5 - Attaching Brackets

- b. use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.

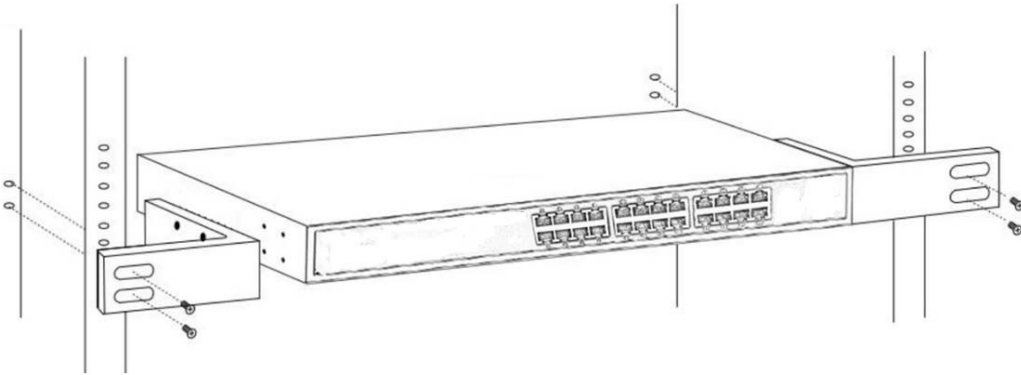


Figure 6 - Mounting Switch

3.1.3 Power on the Switch

The Switch is powered on by the AC 100~240V 50/60Hz internal high-performance power supply. Please follow the next tips to connect:

AC Electrical Outlet:

It is recommended to use single-phase three-wire receptacle with neutral outlet or multifunctional computer professional receptacle. Please make sure to connect the metal ground connector to the grounding source on the outlet.

AC Power Cord Connection:

Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON or not. When it is ON, it indicates the power connection is OK.

3.2 Connect Computer (NIC) to the Switch

Please insert the NIC into the computer, after installing network card driver, please connect one end of the twisted pair to RJ-45 jack of your computer, the other end will be connected to any RJ-45 port of the Switch, the distance between Switch and computer is around 100 meters. Once the connection is OK and the devices are power on normally, the Link/Act status indicator lights corresponding ports of the Switch.

Appendix: Technical Specifications

Specification		
Standards		IEEE802.3 10Base-T, IEEE802.3u 100Base-TX
Network Media (Cable)		10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m)
Number of Ports		24 x Fast Ethernet Auto-Negotiation ports
LED indicators	10/100M	Link/Act
	Other	Power
Transfer Method		Store-and-Forward
Switching Capacity		4.8G
MAC address table		8K
MAC Address Learning		Automatically learning, automatically Update
Frame Filtering and Forward Rate		10Mbps: 14880pps, 100Mbps: 148800pps
Environment		Operating Temperature: 0℃~40℃ Storage Temperature: -40℃~70℃ Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing
Power Supply/Consume		Input: 100-240V~50-60Hz 0.3A Consume: 6 W (MAX)



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