Chapter 1

Introduction

About this Switch

5/8/16 ports switch provides a flexible, reliable and affordable way of giving any types of network the high-speed backbone solution that they need. The 5/8/16 ports switch comes complete with 5/8/16 independent 10BASE-T/100BASE-TX ports, with every port fully supporting full-wire speed transmissions, up to 200Mbps per port, and the ability to operate in either half or full-duplex modes.

It also possesses an N-Way auto-negotiation function, which automatically adjusts the device for optimum operation; "store and forward" architecture, to eliminate error packets and improve efficiency; and one MDI Uplink port, allowing it to cascade an infinite amount of switches together and easily expand an existing network. Indeed, with its easy to use plug-and play installation and outstanding performance at HUB price. It also provides a detailed LED indicator display the Power, Link/ Activity, 100M and full duplex for monitoring your network simple and easy!

About this Manual

This manual briefly explains how to install and use this 5/8/16 Ports 10/100Mbps Fast Ethernet Switch.

Package Contents:

- One 5/8/16 ports 10/100Mbps Fast Ethernet Switch (As you purchased)
- One power adapter or power cord.
- One set of rack-mounting kits (For 16 ports switch)
- User's Guide

Power requirement

5/8 Ports Switch: DC 5V 3Amp

16 ports Switch: 100-240VAC at 50Hz ~ 60Hz.

Please refer to the label on the power adapter packed in the package, the power requirements also shown on the switch. ***Please do not use any other adapters beside the one provided.***

Key Features & Specification:

- Compliant with IEEE802.3 10Base-T and IEEE 802.3u 100Base-TX standards.
- Provides five/ eight /sixteen 10Base-T / 100Base-TX Auto-sensing ports
- An extra MDI (Uplink) port for easy hub-to-hub connection via UTP cable.
- Supporting full-duplex/half-duplex transmission modes
- Every port supporting full-wire speed transmissions, up to 200Mbps per port.
- Store-and-Forward switching method.
- Filtering , forwarding and learning bridging function
- Automatic address learning, address migration
- Comprehensive LEDs indicator displays the network status, Link/Activity, full duplex, power and speed.
- Emissions Certification: FCC/CE Mark
- Temperature: 0℃~40℃
- Humidity: 5% ~ 90%

Chapter 2

Hardware Description:

LED Panel

Through the well-organized LED indicators on the front panel, you can easily monitor and diagnose the status and activity of each port while the hub is in operation.

LED function	Color	Description
Power (PWR)	Green	Lit: Power on Unlit: Power off
100M	Green	Lit: A valid 100Mbps connection Unlit:A valid 10Mbps connection or not be used
* LINK/ ACT (Link/Activity)	Green	Lit: A valid connection Flashing : Data Receiving Unlit: No valid connection
* LINK/ ACT/ 100M (Link/Activity)	Green	Lit: A valid 100Mbps connection Flashing : A valid 100Mbps data receiving
	Yellow	Lit: A valid 10Mbps connection Flashing : A valid 10Mbps data receiving
	No	Unlit: No valid connection
FDX (Full-Duplex)	Green	Lit: Full-duplex operation Unlit: Half-Duplex operation

Chapter 3
Installation

Quick Installation Procedures:

1. Find a location close to the network devices and an electrical outlet.
2. Desktop Installation: Place switch on a smooth surface.
3. Rack Installation: Use the brackets and screws supplied in the rack mounting kit. Use a cross-head screwdriver to attach the brackets to the side of the switch. Position the switch in the rack by lining up holes in the brackets with the appropriate holes on the rack, and then use the supplied screws to mount the switch in the rack.
4. Plug the power cord or adapter into the power socket at the switch and the other end to the power outlet. Check if the Power LED on the front panel is on.
5. Connect workstations to switch using Category 3, 4 or 5 UTP/STP cables for 10Mbps or Category 5 cables for 100Mbps Fast Ethernet Connection. For convenience, we suggest you use Category 5 cables for all operation.

6. Verify network operation:
   Verify that all attached devices have a valid connection. The switch monitors the link status for each port. If any device is properly connected to the switch and transmitting a link beat signal, the Link indicator will light up for the corresponding port. If the Link indicator fails to light when you connect a device to the switch, check the following items:
   a. Be sure all network cables and connectors are properly attached to the connected device and the switch.
   b. Both sides of each connection must use the same transmission mode. The switch can use auto-negotiation to set both speed and mode. However, full duplex can only be supported if the attached device also uses auto negotiation.
   c. See if your cable is functioning properly by using it for another port and attached device that displays valid indications when connected to the network.
   d. Be sure no twisted-pair cable exceeds 100meters.

Uplink connections:

Like any switch, any compatible switch, hub or other network interconnection device can be attached to the Uplink (MDI) port on the switch.

1. You may connect from an MDI Uplink port on the switch to any of RJ45 MDI-X port on the target device.
2. Prepare straight-through shielded or unshielded twisted-pair cables with RJ-45 plugs at both ends. Use 100ohmCategory 3,4 or 5 cable for standard 10Mbps Ethernet connections, or 100ohm Category 5 cable for 100Mbps Fast Ethernet connections. When inserting an RJ-45plug, be sure the tab on the plug clicks into position to ensure that it is properly seated.

Note: When the MDI (Uplink) port is used, the latest port (5^{th}/8^{th}/16^{th} port on the 5/8/16 ports switch) cannot be used. Both of the two ports are not allowed to operate at same Time.

FCC Warning

This device has been tested and found to comply with 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 user's guide, may cause interference in which case user will be required to correct the interference at his own expanse. However, there is no guarantee that interference will not occur in a particular installation.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

User’s Manual

High performance

5/8/16 Ports Fast Ethernet Switch