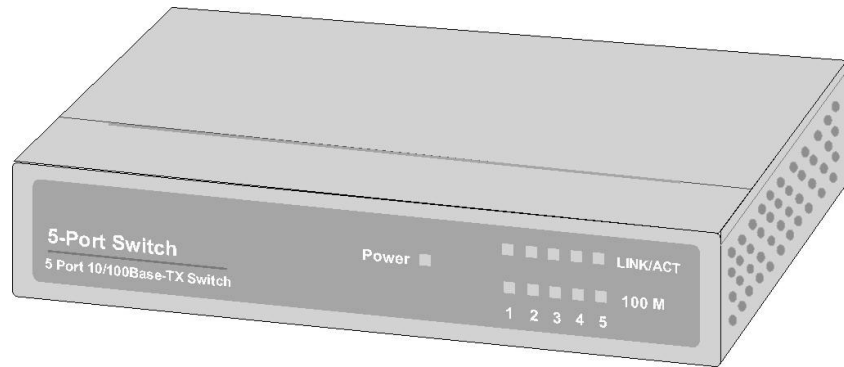


5-Port Switch (Auto MDI/MDIX)

User Guide



The 5-Port Switch (Auto MDI/MDIX)

Introduction

The 5-Port Switch (Auto MDI/MDIX) provides wire-speed, Fast Ethernet switching function that allows high-performance, low cost connections to Full-duplex, Half-duplex, 10Mbps and 100Mbps Ethernet network. The 5-Port Switch (Auto MDI/MDIX) provides five auto-sensing 10/100Mbps Ethernet RJ-45 ports. This switch automatically detects the speed of the device that you plug into it and routes it to the appropriate port. This switching function allows 10Mbps, 100Mbps, Full-duplex and Half-duplex devices to communicate on the same network without having to replace any infrastructure.

Key Features

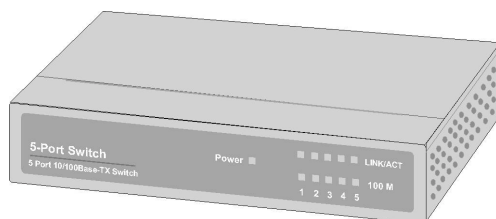
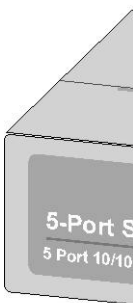
- Compliant with IEEE 802.3, 802.3u and 802.3x standards
- 5 auto-sensing 10/100Mbps Ethernet RJ-45 ports
- Automatic MDI/MDIX crossover for all ports

- Store-and-Forward switching architecture
- Auto-detect of full/half-duplex mode in all ports
- Back-pressure for Half-duplex , Pause frame for Full-duplex
- Plug-and-Play configuration auto addresses learning
- Embedded 4K-entry MAC address table
- 128KB memory buffer sharing
- LED-indicators for Power, Link/activity, 100Mbps
- Broadcast Storm protection
- Space-saving compact size : 4.3 inches

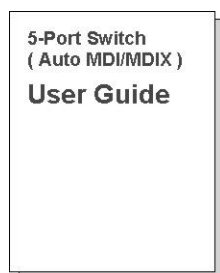
Package Contents

Checking your package contents that should include the following parts:

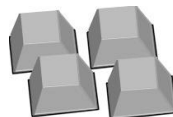
- 5-Port Switch (Auto MDI/MDIX)
- One DC power adapter
- Four with adhesive pads
- User's Guide



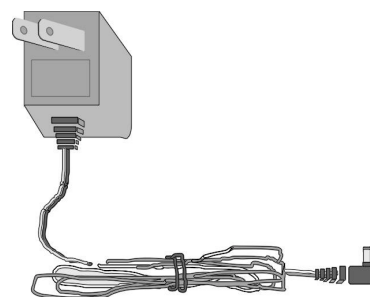
**5-Port Switch
(Auto MDI/MDIX)**



User's Guide



Rubber Feet



DC Power Adapter

Figure 2. Package Contents

If any of these pieces is found missing or damaged, please contact your local dealers or reseller for service.

Hardware Description

The Front Panel

The front panel consists of LED Indicators.



Figure 3. Front Panel view of 5-Port Switch (Auto MDI/MDIX)

LEDs

Per Device	Power
Per Port	LINK/ACT (Link/Activity)
	100Mbps (Link on 100Mbps)

The Rear Panel

The rear panel view of the 5-Port Switch (Auto MDI/MDIX) consists of a DC power connector and 5 auto-sensing ports.

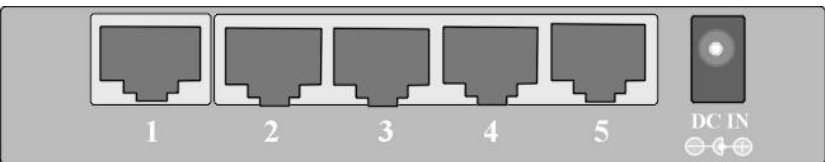


Figure 4. Rear panel view of the 5-Port Switch (Auto MDI/MDIX)

■ RJ-45 Ports (Auto MDI/MDIX):
5x 10/100 N-way auto-sensing for 10Base-T or 100Base-TX connections. [In general, **MDI** means connecting to another Hub or

Switch while **MDIX** means connecting to a workstation or PC. Therefore, **Auto MDI/MDIX** means that you can connect to another Switch or workstation without changing non-crossover or crossover cabling.]

- DC Power Connector
Plug this connector female end into this device, and the male into a power outlet. **Supported input voltages DC 9V at 800 mA.**

LED-Indicators

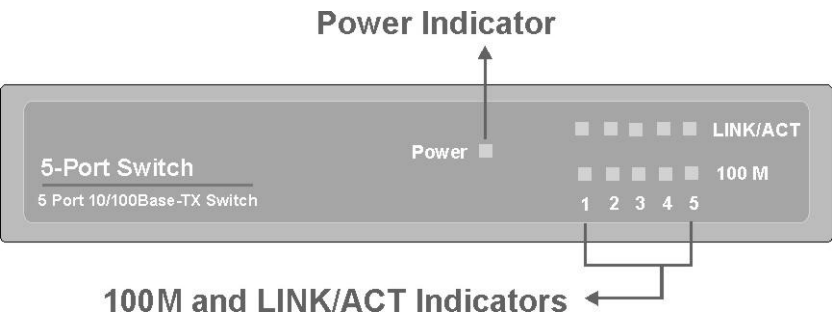


Figure 5. Front panel view of LED indications

The Table lists the LEDs available and their respective function.

LED	Status	Color	Description
Power	On	Green	The hub is supplied with suitable power.
100M bps	On	Green	The port is connecting with 100Mbps.
	Off		The connection between the Switch and the device is 10Mbps, if the LINK/ ACT light is on.
LINK/ ACT	On	Green	The port is successfully connecting with the device.
	Blinks		The port is receiving or transmitting data.
	Off		The port does not link successfully with the device.

Trouble Shooting

The Switch can be easily monitored through panel indicators to assist in identifying problems. This section describes common problems you may encounter and where you can find possible solutions.

■ Power

If the power indicator does not turn on when the power cord is plugged in, you may have a problem with the power outlet, or power cord. However, if the powers off after running for a while, check for loose power connections, power losses or surges at the power outlet. Turn off power, after a while then turn on power again. If you still cannot resolve the problem, ask for dealer's assistance.

■ Cabling

Verify that the cabling type is correct. Be sure all cable connectors are securely seated in the required ports. Use all standard unshielded twisted-pair (UTP), Category 3, 4, or 5 cables ; or Category 5 only when connecting with Fast Ethernet. Make sure the maximum distance between the Switch to the workstation, or Switch is 100 meters.

Product Specification

General Specification

Standard Compliance	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3x Flow Control
Number of Ports	5X 10/100Mbps Auto-sensing RJ-45 ports
	Ethernet: 10Mbps(half duplex)

Data Transfer Rate	20Mbps(full duplex) Fast Ethernet: 100Mbps(half duplex) 200Mbps(full duplex)
Network Cables	Unshielded Twisted-pair Cable
Topology	Star
LED Indicators Per Device Per Port	Power 100Mbps, LINK/ACT

Performance Specification

Transmission Method	Store and forward
MAC address table	4K-entry MAC address table
Maximum Forwarding Rate (64byte packets)	14,880 pps /10 BASE-T 148,800 pps /100BASE-TX
Maximum Filtering Rate (64byte packets)	14,880 pps /10BASE-T 148,800 pps/100BASE-TX
Flow control	Pause frame (Full-duplex) Back-pressure (Half-duplex)
Duplex mode	Supports both Half-duplex and Full-duplex mode

Physical & Environmental Specification

Power Supply	External power adapter,
	DC 9V, 800mA
Power Consumption	4.2 Watt. (Max.)
Dimensions	110mm×70mm×19mm (L×W×H)
Temperature	Operating temperature: 0°C to 45°C (32°F to 113°F) storage temperature: -40°C to 70°C (-22°F to 140°F)

Humidity	10% to 90% (non-conditioning)
EMI	FCC Class B, CE mark
Safety	UL, cUL

FCC Statement

This equipment has been tested and found to comply with the limits for a class B device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference on 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 the user's own expense.