QPCOM ®

QUALITY PRICE

User's Manual

QP-108EC

8 port 10/100M Switch HUB

ethernet

1   Introduction

This manual describes how to install and use the NWay Ethernet Switch. It features 5 or 8 10/100Mbps Auto-Negotiation switch ports, provides the flexibility to fit into your working space with network environment. The NWay Ethernet Switch can be used to connect PCs, servers, hubs, bridges, other switches and routers. It can also acting as a bridge between 10Mbps and 100Mbps networks segments. Thanks to the switching technology, it supports 10Mbps and 100Mbps dedicated bandwidths in each port. The device is built with plug & play, auto-negotiation on all ports, as well as half and full-duplex operations, store-and- forward transmission scheme, IEEE802.3x flow control and back pressure operation for easy installation and smooth transition from legacy 10Mbps to 100Mbps Switched-Network. To ensure maximum safety and good function, please read carefully and follow all the directions in this manual to get successful installation and operation. It is recommended that you should have a basic understanding of Local area Networking (LAN) concepts such as bridging, IEEE802.3 10BASE-T Ethernet, and IEEE802.3u 100BASE-TX Fast Ethernet.
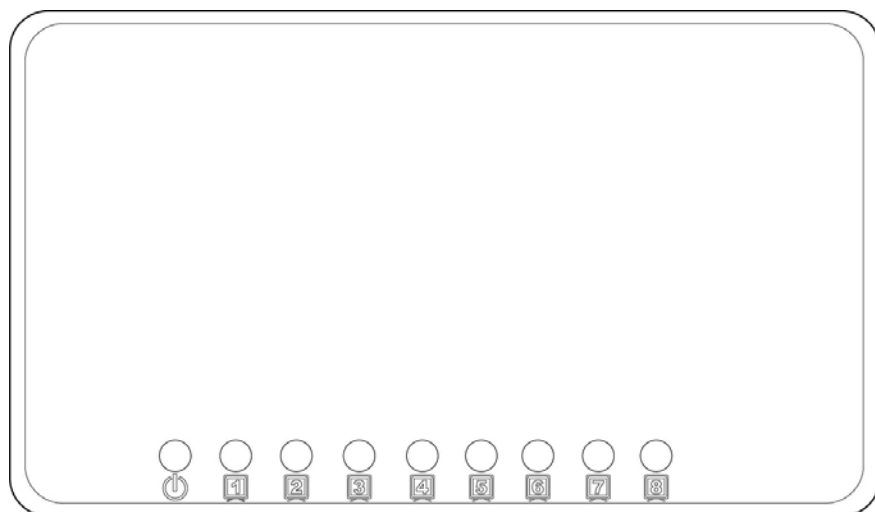
2   Package Contents

The Ethernet Switch package includes:
· One 5 or 8 port 10/100Mbps NWay Ethernet Switch
· One DC power adapter (9V 0.5A)
· One User's Manual

3   Interface introduce

Front Panel

The front panel of the switch provides status LEDs for "at-a-glance" system monitoring. The following table details the functions of the LEDs:


Port and System Status LEDs		
LED	Condition	Status
Power	Green	The switch is receiving power.

|		
LAN1~LAN8 Link/Activity	Green	Indicates a valid network connection between the port and the attached device.
	Off	Indicates no network connection established between the port and the attached device.
	Flashing Green	Indicates that the port is transmitting or receiving data.

Rear Panel

These Switch 10/100 models feature 5/8 10BASE-T/100BASE-TX ports with RJ-45 connectors located on the rear panel of the Switch. Each port contains a built-in wiring crossover (MDI-X) that allows for the use of straight-through twisted-pair cable for connections to devices without built-in crossover ports (i.e., workstations, printers, etc.).
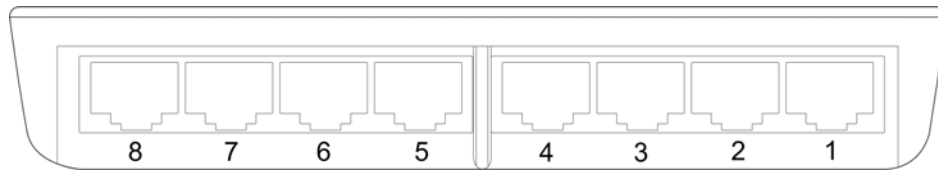
Side Panel

The DC power (9V 0.5A) connector is also located on the side panel of the switch.
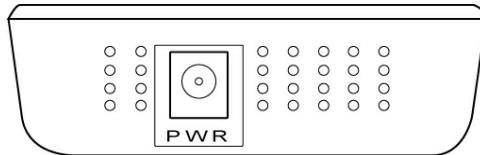
4   Attach computers to the NWay Ethernet Switch

The NWay Ethernet Switch has 5 or 8 10/100Mbps (10BASE-T/100BASE-TX) RJ-45 ports that can be connected to any workstation or server with a standard Ethernet or Fast Ethernet network interface.

1. Do not plug a phone jack connector into any of the RJ-45 ports. This may damage the NWay Ethernet Switch.
2. Install a 10/100Mbps (10BASE-T/100BASE-TX) network adapter card and driver in each computer you want to network.
3. Prepare twisted-pair cables with RJ-45 plugs. Use Category 5 cable for all connections. Each cable cannot exceed 100 meters (328 feet).
4. Attach one end of the cable to the RJ-45 port of the computer's network adapter card and the other end to any available port on the Switch.
5. Be sure not to use the MDI-X port and its shared MDI port at same time for any connected device.

5   Cascading to another Switch or a Hub

You can cascade the NWay Ethernet Switch to another switch or a hub. (When attaching the Nway Ethernet Switch to arouter or other device, verify the port type implemented before connecting any cabling).

1. Prepare a straight-through Category 5 twisted pair cable with RJ-45 plugs. Make sure the cable dose not exceed 100 meters(328 feet).P.S.:Please note that since this switch is Auto MDIX, function supported, a crossover cable for installation can replace the straight-through cable. With the help of auto MDIX, the switch will automatically swap the wiring internally by this switch itself.
2. Connect one end of the cable to the NWay Ethernet Switch's any RJ45 port, which is convenient to your installation.
3. Connect the other end of the cable to a MDI-X port on the other device(not a MDI port). Alternatively, you can connect from any RJ45 port on the NWay Ethernet Switch to a MDI port on the other device.
4. A crossover cable for installation can replace the straight-through cable for above procedures with the help of Auto MDIX function.

6   RJ45 Ports with Auto MDI/MDIX

This device supports 10/100 N-Way auto –sensing and auto MDIX for 10Base-T or 100Base –Tx connections. In general, MDI port is designed for connecting to another Hub or Switch while MDIX port is designed for connecting to a workstation or PC. Therefore, Auto MDI/MDIX is a flexible design that you can connect any RJ45 port to another Switch or Workstation without changing non-crossover or crossover cabling.

7   Troubleshooting

The operation of Ethernet Switch can be easily monitored through panel indicators to assist the network manager in identifying problems.

Symptom: Link indicator does not light up after making a connection.

Cause: Network interface(e.g., a network adapter card on the attached device), network cable, or switch port is defective.

Solution: Verify that the switch and attached device are powered. Be sure the cable is correctly plugged into both the switch and corresponding device. Verify that the proper cable type is used and its length does not exceed specified limits. Each twisted-pair cable should not exceed 100 meters (328 feet). Check the adapter on the attached device and cable connections for possible defects. Replace the defective adapter or cable if necessary.

Symptom: Power indicator does not light after power adapter is attached.

Cause: Defective power outlet, power cord, or power adapter.

Solution: Check the power outlet by plugging in another device that is functioning properly. Check the power cord with another device. If these measures fail to resolve the problem, have the unit's power adapter replaced by a qualified distributor.