

FCC Certifications



This Equipment has been tested and found to comply with the limits for a Class B 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 residential 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 55032 class B for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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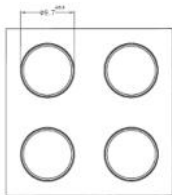
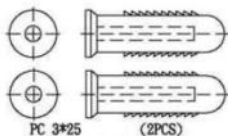
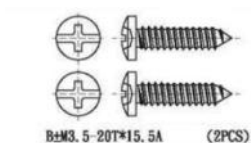
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Unpacking Information

Thank you for purchasing this product. Before installation, please verify that your package contains the following items.

1. One 2.5 Gigabit Ethernet Switch
2. One Power Adapter (12Vdc)
3. Rubber feet and Wall mount kit :



4. Magnet (optional)
5. User's Manual

Introduction

General Description

Easily boost your networking throughput, the desk top 2.5GbE switch provides you 5 or 8 ports 10/100/1000/Mbps even 2.5GbE that lead you to super fast transmission. Users are now able to transfer large and super high bandwidth-needed files faster and hence get a real efficiency improvement.

The switch offers users with super fast and reliable network. The store-and-forward architecture filters errors and forwards packets in a non-blocking environment. Flow control ensures the correctness of data transmitting. The 802.3x and backpressure flow control mechanisms work respectively for full and half duplex modes.

The switch features with easy installation and maintenance. It supports Nway auto-negotiation protocol, which detects the networking speed (10/100/1000/2500 Mbps) and the duplex modes (Full or Half duplex mode) automatically and do an immediately adjustment to advance the capability and performance. Auto-MDI/MDI-X function alleviates the effort to use crossover cables. Users need not to prepare crossover cables for equipment connectivity. Also, rich diagnostic LEDs are provided for users to get real-time information of the connection status that helps to do quick response and correction.

Key Features

- 5 * 10/100/1000/ 2500 Mbps RJ-45 Nway ports
(5-Port 2.5GbE Switch)
- 8 * 10/100/1000/ 2500 Mbps RJ-45 Nway ports
(8-Port 2.5GbE Switch)
- Supports NWay protocol for speed
(10/100/1000/2500Mbps) and duplex mode (Half/Full)
auto-detection
- Supports MDI/MDI-X auto crossover
- Supports back-pressure (half duplex) and flow control (IEEE
802.3x)
- Store-and-forward architecture filters fragment & CRC error
packets
- Supports IEEE 802.3az-2010 Energy Efficient Ethernet
- Supports Green Ethernet (Link-Down Power Saving &
Link-Up Cable Length Power Saving)
- Supports extensive LED indicators for network diagnostics
- Supports Loop detection switch (Optional)
- Supports LED on/off switch (Optional)
- Fanless to keep running silently
- Wall mount support

The Front Panel

The front panel consist :

1. LED indicators for power on and Loop detection.
2. RJ-45 ports with LED indicators.
3. LED On/Off switch button.
4. Loop Detection On/Off slide switch.

The front panel of the switch is shown as below:

5-Port 2.5GbE Switch -



8-Port 2.5GbE Switch -



The Rear Panel

The back panel consists of power receptance jack.

The rear panel of the switch is shown as below:

5-Port / 8-port 2.5GbE Switch -



Power On

To power on the switch, plug the power jack of the 12Vdc power adapter into the power recept jack of the switch and the other end into an electric service outlet. After the power installation, please check if the power LED is illuminated for a normal power on status.

Switch Button / Slide Switch Definition (Optional)

This Device contain all LED ON/OFF and Loop detection ON/OFF switch functions.

LED ON/OFF Switch Button:

Switch	Status	Operation
LED	On	Remain all LED function as normally
	Off	Turn off all LED

Loop detection ON/OFF Slide Switch:

Switch	Status	Operation
Loop detection	On	Loop detection turn on
	Off	Turn off loop detection

Note.

To enable LED ON/OFF and Loop detection ON/OFF switch functions, you have to unplug then pulg power jack to reset the device after ON/OFF button switched.

LEDs Definition

This switch contain Power and Loop LED and 2 * Link/ Act LED for each port that shows the activities and information of the ports.

LED for the front panel:

LED	Status	Operation
Power	Steady Green	The switch is powered on
	Off	The switch is powered off
Loop	Blinking (Dark and Red)	Loop happened

Port LEDs

The switch provides two “Link/ ACT” LED for each port.

LED	Status	Operation
Link/ ACT	Steady Green (Right LED)	Valid port connection for 2.5GbE
	Steady Amber (Left LED)	Valid port connection for 1GbE/100MbE/10MbE
	Single LED Blinking	Valid port connection and there is data transmitting/ receiving
	Off	Port disconnected

Installation

This switch can be placed on your desktop directly, or mounted on a steel plate via magnet or mounted on a wall via wall mount kit. 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 in an environment with proper ventilation. A minimum 25mm 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. Attach the provided robber feet to the bottom of the switch to keep the switch from slipping. The recommend position has been circle-marked.
2. Install the switch on a level surface that can support the weight of the unit and the relevant components.
3. Plug the switch with the DC jack of the provided power adapter and plug the power adapter to the power outlet.

Steel plate / Wall mount Installation

Steel plate / Wall mounting facilitate to an orderly installation when series of networking devices being installed. The switch is supplied with magnet / wall mount kit and screws for Steel plate / Wall mounting the unit.

Procedures to Mount the Switch on the Steel plate / Wall:

1. Disconnect all the cables from the switch before continuing.
2. Place the unit the right way up on a hard, flat surface with the front facing you.
3. Locate a mounting kit over the mounting holes on one side of the unit.
4. Insert the screws / wall mount kit and fully tighten with a suitable screwdriver.
5. Repeat the two previous steps for the other side of the unit.
6. Insert the unit on the steel plate / wall and secure with suitable screws (not provided).
7. Reconnect all the cables.

Network Cables Installation

1. **Crossover or straight-through cable:** All the ports on the switch support Auto-MDI/MDI-X functionality. Both straight-through or crossover cables can be used to connect the switch with PCs as well as other devices like switches, hubs or router.
2. **Category 3, 4, 5 or 5e UTP/STP cable:** To make a valid connection and obtain the optimal performance. Appropriate cables corresponding to different transmitting/receiving speed are required. To choose a suitable cable, please refer to the following table.

Media	Speed	Wiring
RJ-45 Jack	10Mbps	Category 3, 4, 5 UTP/STP
	100Mbps	Category 5 UTP/STP
	1000/2500Mbps	Category 5, 5e UTP/STP

Port Operation

The auto-negotiation feature allows ports running at one of the following operation modes:

Media	Speed	Duplex Mode
RJ-45 Jack	10Mbps	Full Duplex
		Half Duplex
	100Mbps	Full Duplex
		Half Duplex
	1000/2500Mbps	Full Duplex

Product Specifications

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3ab 1000BASE-T IEEE802.3bz 2500BASE-T IEEE802.3x full-duplex flow control
Interface	10/100/1000/2500Mbps auto MDI/MDI-X RJ-45 switching ports
Cable Connections	RJ-45 (10BASE-T): Category 3, 4, 5 UTP/STP RJ-45 (100BASE-TX): Category 5 UTP/STP RJ-45 (1000/2500BASE-T): Category 5, 5e or enhanced UTP/STP
Network Data Rate	10/100/1000/2500Mbps Auto-negotiation
Transmission Mode	10/100Mbps Full-duplex, Half-duplex 1000/2500Mbps Full-duplex
LED indications	System : Power / Loop Ports : Link / ACT
Memory	16K MAC entries Integrated 12Mbit SRAM packet buffer
Jumbo frame	12K Bytes
EMC Certification	ClassB Certification for CE, FCC, VCCI
Safety Certification	Certification for LVD (EN 62368-1)
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Operating Humidity	10% - 90% (non-condensing)
Dimension	250 x 104 x 27mm
Power Supply	External power supply of 100~240VAC/50~60Hz universal input and 12V/1.0A DC output.