



KS108

Switch User Manual

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Chapter 1. Introduction of the Product

Thank you for choosing the KS108 10/100Mbps Desktop Switch.

1.1 Overview of the Product

The KS108 architecture is the optimal solution for consumer switching needs with its support for high-performance line rate capabilities and ability to identify and prioritize different data packet types within the switch while simultaneously assigning voice packets a higher priority for outbound communications. The KS108 is poised to drive the unmanaged and Smart switch, WLAN router, and CPE/Gateway markets with its comprehensive Layer 2 feature set, support for both DSL/cable modem and WLAN connectivity, and an industry-leading switching capacity—all on a single chip.

1.2 Features

Complies with IEEE 802.3, IEEE 802.3u standards

8 10/100Mbps Auto-Negotiation RJ45 ports supporting Auto-MDI/MDIX

Supports IEEE802.3x flow control for Full Duplex mode and backpressure for Half Duplex mode

Supports MAC address auto-learning and auto-aging

LED indicators for monitoring power, link, activity

Plastic case, desktop or wall-mounting design

External Power Adapter supply

Chapter 2. Installation

2.1 Mounting the Switch on a Desk

To install the Switch, please follow the steps:

- 1) You can place the Switch on a flat desk.
- 2) Please inspect the Power Adapter carefully and make sure that it is properly connected to a power source.
- 3) Ensure adequate ventilation space around the switch for dissipating heat and air.

Note:

Please avoid any heavy thing placed on the switch.

2.2 Power On

Powering on the Switch, it will automatically initialize and its LED indicators will respond as follows:

- 1) All of the Link/Act LED indicators will flash momentarily, which represents a resetting of the system.
- 2) The Power LED indicator will light all the time.

Note:

If the LED indicators don't respond as described above, please check the power supply and its connection.

Chapter 3. Identifying External Components

This Chapter describes the front panel, rear panel and LED indicators of the Switch.

3.1 Front Panel

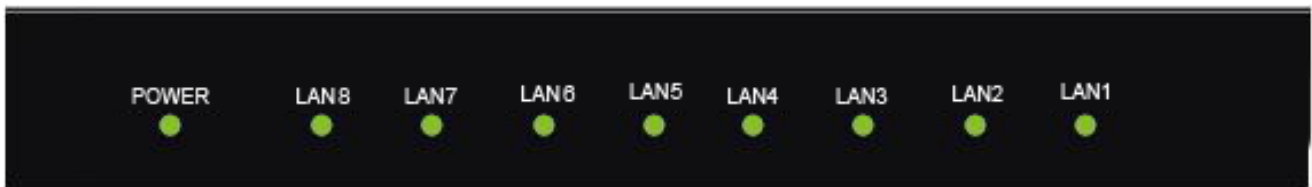


Figure 3-1 KS108 Switch Front Panel

The Switch's LEDs are located on the front panel.

Power LED: This indicator will light up when the Switch powers on.

LEDs (1-8): LED indicator will light green when a device is connected to the corresponding port. It flashes when data is being transmitted or received on the connection.

3.2 Rear Panel

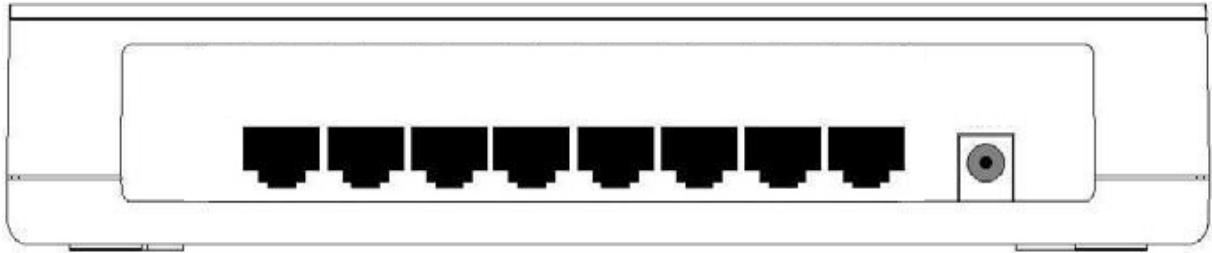


Figure 3-2 KS108 Switch Rear Panel

The following parts are located on the rear panel:

Power: The Power socket is where you will connect the power adapter.
Please use the power adapter provided with this KS108 Switch.

Port (1-8): The KS108 Switch is equipped with 8 10/100 Auto-Negotiation RJ45 ports where you will connect your network devices.
The working status can be indicated by the corresponding LEDs on the front panel.

Appendix A: Specifications

Standards and Protocols	IEEE 802.3, 802.3u, 802.3ab, 802.3x CSMA/CD, TCP/IP
Basic Function	Wire-speed Performance MAC Address Auto-learning and Auto-aging IEEE 802.3x flow control for full-duplex mode and backpressure for half-duplex mode
Backbound Bandwidth	10Gbps
MAC Address Table	4k
Forwarding Rate	10BASE-T: 14880pps/port 100BASE-TX: 148800pps/port
Transmission Method	Store-and-Forward
Ports	8 10/100Mbps Auto-Negotiation RJ45 ports (Auto MDI/MDIX)
Network Media	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ω STP (maximum 100m)
LED Indicators	Power, 100Mbps, Link/Act
Safety and Emission	FCC, CE
Environment	0°C ~40°C (32°F ~104°F) -40°C ~70°C (-40°F ~158°F) 10%~90% non-condensing 5%~90% non-condensing
Power	External Power Adapter

Appendix B: Troubleshooting

1. The Power LED is not lit

Check to see if the power cord is connected to the Switch properly, and make sure the power source is ON.

2. The Link/Act LED is not lit when a device is connected to the corresponding port

Check to see if the cable connectors are firmly plugged into the Switch and the device, and verify the connected device is turned on and working well. Make sure the cable is not longer than 100 meters (328 feet)



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