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Cudy GS105D

Cudy GS105D 5-Port Gigabit Ethernet Switch User Manual

Model: GS105D

1. INTRODUCTION

The Cudy GS105D is a 5-Port Gigabit Ethernet Switch designed to expand your network connectivity. This unmanaged switch provides five 10/100/1000Mbps RJ45 ports, allowing for seamless integration of various wired devices such as computers, gaming consoles, printers, and network-attached storage (NAS) devices. Its plug-and-play functionality ensures easy setup without requiring any software configuration.

2. PRODUCT OVERVIEW

The Cudy GS105D is a compact and efficient solution for expanding your wired network. It features Cudy Green Technology for power saving, automatically adjusting power consumption based on link status and cable length. The fanless design ensures quiet operation, making it suitable for any environment. It supports IEEE 802.3x flow control for full-duplex mode and backpressure for half-duplex mode, enhancing network reliability and alleviating congestion during large file transfers.

Plug and Play Gigabit Network Extension

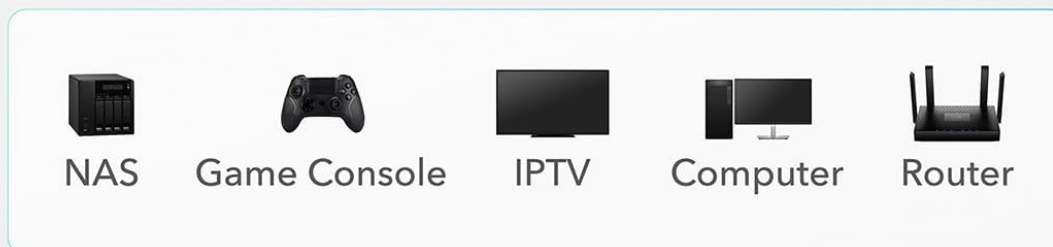


Figure 2.1: Front view of the Cudy GS105D 5-Port Gigabit Ethernet Switch, showing the five RJ45 ports and LED indicators.

3. PACKAGE CONTENTS

Verify the package contains the following items:

- 1 x Cudy GS105D 5-Port Gigabit Ethernet Switch
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Installation Guide (this manual)

Compact Design



Figure 3.1: The Cudy GS105D switch packaging, indicating the model and port count.

4. HARDWARE FEATURES

4.1 Front Panel

The front panel of the GS105D features five RJ45 ports and LED indicators for power and link/activity status.

- **Power LED:** Indicates the power status of the switch.
- **Link/Act LEDs (1-5):** Each port has an LED. A solid light indicates a valid network connection, while a blinking light indicates data transmission.
- **RJ45 Ports (1-5):** 10/100/1000Mbps auto-negotiation ports for connecting Ethernet devices.

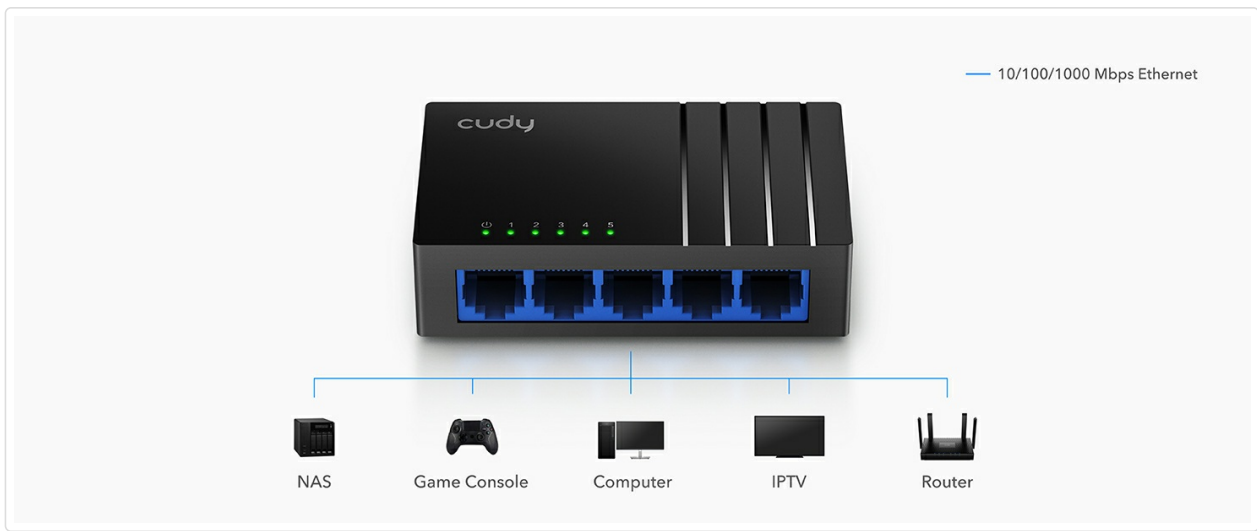


Figure 4.1: Detailed view of the Cudy GS105D ports and LED indicators.

4.2 Physical Design

The GS105D features a compact, fanless design for silent operation. It can be placed on a desktop or mounted on a wall using the integrated keyhole slots.



Figure 4.2: The compact design of the Cudy GS105D, showing its dimensions for easy placement.



Figure 4.3: Close-up of the wall-mounting keyhole on the Cudy GS105D.

5. SETUP INSTRUCTIONS

The Cudy GS105D is a plug-and-play device, requiring no complex configuration. Follow these steps to set up your switch:

1. **Connect the Power Adapter:** Plug the provided power adapter into the power port on the switch and then into a standard electrical outlet. The Power LED on the front panel should illuminate.
2. **Connect to Your Network:** Connect an Ethernet cable from your router or modem to any of the RJ45 ports on the GS105D.
3. **Connect Your Devices:** Connect your wired devices (e.g., PC, laptop, gaming console, printer) to the remaining RJ45 ports on the GS105D using Ethernet cables.

Once connected, the corresponding Link/Act LEDs for the active ports will light up, indicating a successful connection. The switch will automatically detect the speed and duplex mode of the connected devices.



Figure 5.1: Illustration of the Cudy GS105D connected to various network devices.

6. OPERATING INSTRUCTIONS

The Cudy GS105D operates automatically once powered on and connected. It is an unmanaged switch, meaning no user configuration is required. Key operational features include:

- **Auto-Negotiation:** Each port automatically detects the link speed (10/100/1000Mbps) of a connected network device and intelligently adjusts for compatibility and optimal performance.
- **Auto MDI/MDIX:** Eliminates the need for crossover cables, simplifying network connections. You can use either straight-through or crossover Ethernet cables for any port.
- **Fanless Design:** Ensures silent operation, ideal for home or office environments where noise reduction is desired.
- **Cudy Green Technology:** The switch automatically adjusts power consumption based on the link status and cable length, saving energy.



Figure 6.1: The Cudy GS105D saves power when ports are idle, contributing to energy efficiency.

7. MAINTENANCE

To ensure optimal performance and longevity of your Cudy GS105D switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the switch is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Environment:** Operate the switch within the specified temperature and humidity ranges (0°C~40°C / 32°F~104°F). Avoid exposure to direct sunlight, excessive heat, or moisture.
- **Power:** Use only the provided power adapter. Disconnect the power adapter during electrical storms or when unused for long periods.

8. TROUBLESHOOTING

If you encounter issues with your Cudy GS105D switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power LED indication	Power adapter not connected or faulty.	Ensure the power adapter is securely connected to the switch and a working power outlet. Try a different outlet or adapter if available.
No Link/Act LED for a connected device	Ethernet cable faulty or improperly connected. Device is off or not functioning.	Check the Ethernet cable connection at both ends. Try a different Ethernet cable. Ensure the connected device is powered on and its network adapter is enabled.
Slow network speed	Cable quality, device compatibility, network congestion.	Ensure you are using Cat5e or higher Ethernet cables for Gigabit speeds. Verify that connected devices support Gigabit Ethernet. Reduce network traffic if possible.
Intermittent connection	Loose cable connection, faulty cable, power fluctuations.	Secure all Ethernet cable connections. Replace suspect cables. Ensure the power supply is stable.

9. SPECIFICATIONS

Feature	Description
Brand	Cudy
Model Number	GS105D
Number of Ports	5
Data Transfer Rate	10/100/1000 Mbps (Gigabit)
Interface	RJ45
Switch Type	Unmanaged
Case Material	Plastic
Item Weight	3.79 Ounces
Operating Temperature	0°C~40°C (32°F~104°F)
Compatible Devices	Desktop, Laptop, Printer, Router, Gaming Console, NAS
Features	Plug & Play, Fanless, Auto MDI/MDIX, Auto-Negotiation, Cudy Green Technology

10. WARRANTY AND SUPPORT

The Cudy GS105D 5-Port Gigabit Ethernet Switch comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please contact Cudy customer support through their official website or the contact information provided in your product packaging. Please have your model number (GS105D) and purchase information ready when contacting support.