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 - > Binardat 8-Port 2.5G Unmanaged Switch with 1-Port 10G SFP+ User Manual

Binardat 8x2.5G+10G SFP

Binardat 8-Port 2.5G Unmanaged Switch with 1-Port 10G SFP+ User Manual

Model: 8x2.5G+10G SFP

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Binardat 8-Port 2.5G Unmanaged Switch with 1-Port 10G SFP+. This high-performance switch is designed to enhance your network's speed and efficiency, making it ideal for demanding applications such as 4K video streaming, online gaming, and large file transfers in both home and office environments.



Figure 1.1: Binardat 8-Port 2.5G Unmanaged Switch (Front View)

The image displays the Binardat 8-Port 2.5G Unmanaged Switch, a compact black device with eight RJ45 ports and one SFP+ port on the front panel. Each RJ45 port has indicator lights for link/activity and speed. The device features a sleek, fanless design with ventilation on the sides.

2. PRODUCT FEATURES

The Binardat 8-Port 2.5G Unmanaged Switch offers a range of features designed for optimal network performance and ease of use:

- **High-Speed Connectivity:** Equipped with eight 2.5 Gigabit RJ-45 ports and one 10 Gigabit SFP+ port, providing multi-gigabit speeds for demanding applications.
- **Unmanaged Operation:** Plug-and-play functionality requires no configuration, making setup simple and quick.
- **Silent Operation:** Fanless design ensures quiet performance, suitable for home and office environments.
- **Durable Design:** Features a robust metal casing for enhanced durability and efficient heat dissipation.
- **Flexible Installation:** Supports both desktop placement and wall-mounting for versatile deployment.
- **Advanced Protection:** Includes 4KV lightning protection to safeguard the device from electrical surges.
- **Port-based VLAN:** A DIP switch allows for easy activation of port-based VLAN, enhancing network security by isolating traffic between ports 1-8 while allowing communication with port 9 (SFP+).
- **Efficient Data Handling:** Supports IEEE 802.3 flow control, Store-and-Forward architecture, No-Blocking Wire Speed, Auto-Negotiation, Auto-MDI/MDI-X, and Auto-Correction for reliable data transmission.



Figure 2.1: Key Features Overview

This image highlights the main features of the switch: 8x 2.5G ports, 10G SFP+ port, Port-based VLAN, Plug and Play, Fanless & Silent Operation, and Wall Mountable design. It visually reinforces the product's capabilities.

Upgrading Network to 2.5G for Home and Office

LINK/ACT 2.5G 100M/1000M 8-Port 2.5G Unmanaged Switch with 1-Port 10G SFP+ 2G09-08110GS

1 2 3 4 5 6 7 8

Default VLAN 1000M 10G

2.5G NAS WiFi 6 AP WiFi 6 Router Laptop with 2.5G Ethernet Adapter 2.5G Gaming PC 4K Video

Online Game Small and Home Offices Home Entertainment Instant Transfer for Workstations

Figure 2.2: Well-Designed Features

The image illustrates four key design aspects: 4KV Lightning Protection, Fanless and Silent Operation (showing ventilation), Wall Mountable capability, and Plug and Play simplicity (showing connected cables).

3. PHYSICAL DESCRIPTION AND PORTS

Familiarize yourself with the physical components and ports of the switch:

High Performance and Reliable Connection

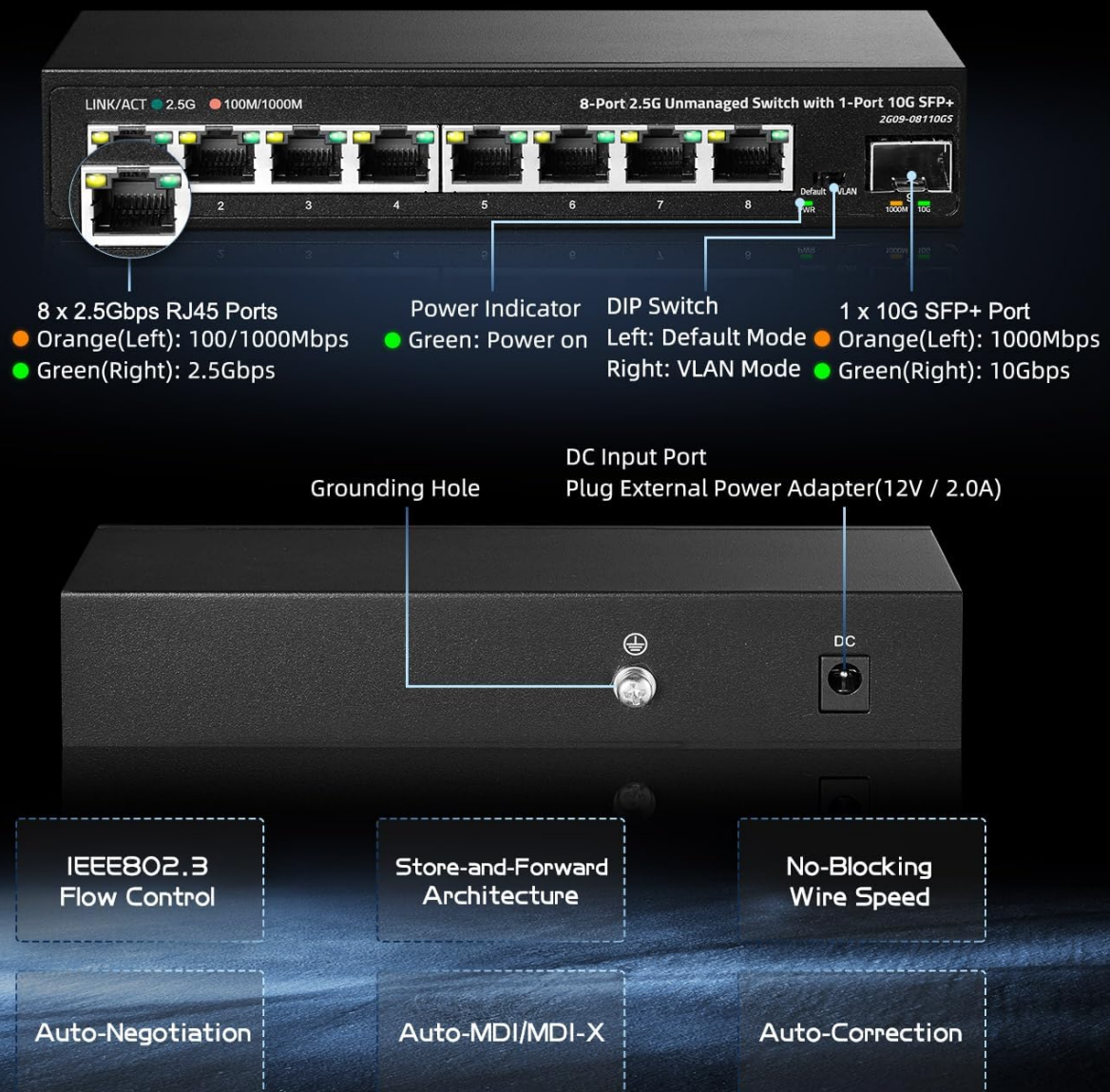


Figure 3.1: Front and Rear Panel Overview

This detailed image shows the front and rear panels of the switch. The front panel includes eight 2.5Gbps RJ45 ports (labeled 1-8), a Power Indicator LED, a DIP Switch for VLAN/Default mode, and one 10Gbps SFP+ Port (labeled 9). The rear panel features a Grounding Hole and a DC Input Port for the external power adapter.

Front Panel:

- **RJ45 Ports (1-8):** Eight 2.5 Gigabit Ethernet ports for connecting network devices.
- **Link/ACT LEDs (for RJ45 ports):**
 - Orange (Left): Indicates 100Mbps or 1000Mbps connection.
 - Green (Right): Indicates 2.5Gbps connection.
- **Power Indicator LED:** Green when the device is powered on.
- **DIP Switch:** Toggles between Default mode (left) and VLAN mode (right).
- **SFP+ Port (9):** One 10 Gigabit SFP+ port for high-speed fiber optic connections.
 - Orange (Left): Indicates 1000Mbps connection.

- Green (Right): Indicates 10Gbps connection.

Rear Panel:

- **Grounding Hole:** For connecting a grounding wire (recommended for surge protection).
- **DC Input Port:** Connects to the external 12V/2.0A power adapter.

4. SETUP

Follow these steps to set up your Binardat switch:

1. **Unpack the Switch:** Carefully remove the switch and its accessories from the packaging.
2. **Placement:** Place the switch on a stable, flat surface (desktop) or mount it on a wall using appropriate hardware (not included). Ensure adequate ventilation around the device.
3. **Connect Power:** Connect the provided power adapter to the DC Input Port on the rear of the switch, then plug the adapter into a power outlet. The Power Indicator LED on the front panel should illuminate green.
4. **Connect Network Devices:**
 - Connect your network devices (e.g., computers, NAS, gaming consoles, routers, WiFi 6 APs) to the RJ45 ports (1-8) using standard Ethernet cables (Cat5e or better for 2.5G speeds).
 - For 10G connectivity, insert a compatible SFP+ module (not included) into the SFP+ Port (9), then connect a fiber optic cable to the module.
5. **Verify Connection:** Check the Link/ACT LEDs for each connected port. A solid green or orange light indicates a successful link. A blinking light indicates data activity.

5. OPERATING INSTRUCTIONS

LED Indicators:

Indicator	Status	Description
Power	Green (Solid)	The switch is powered on.
RJ45 Link/ACT (Ports 1-8)	Orange (Solid)	100Mbps or 1000Mbps link established.
	Green (Solid)	2.5Gbps link established.
	Blinking	Data activity on the port.
SFP+ Link/ACT (Port 9)	Orange (Solid)	1000Mbps link established.
	Green (Solid)	10Gbps link established.
	Blinking	Data activity on the port.

DIP Switch and Port-based VLAN:

The DIP switch on the front panel allows you to select between two operating modes:

- **Default Mode (Switch to Left):** In this mode, all ports (1-9) can communicate with each other. This is the standard operating mode for a typical unmanaged switch.
- **VLAN Mode (Switch to Right):** When VLAN mode is enabled, ports 1 through 8 are isolated from each other. This means devices connected to ports 1-8 cannot communicate directly with each other. However, all ports (1-8) can

still communicate with Port 9 (the SFP+ port). This feature enhances network security by segmenting traffic, for example, allowing surveillance cameras on ports 1-8 to send data to a central NVR connected to port 9 without interfering with other network traffic.

Well Designed



4KV Lightning Protection



Fanless and Silent Operation



Wall Mountable



Plug and Play

Figure 5.1: Port-based VLAN Functionality

This image visually explains the Port-based VLAN feature. When enabled, devices connected to ports 1-8 (e.g., security cameras) are isolated from each other but can communicate with port 9 (SFP+). This is demonstrated with VLANs 1-8 connecting to a central point (Port 9), and an example of a security camera feed being isolated and then processed.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Binardat switch, consider the following maintenance tips:

- **Cleaning:** Regularly clean the exterior of the switch with a soft, dry cloth. Avoid using liquid cleaners or aerosols, which can damage the device.
- **Ventilation:** Ensure that the ventilation holes on the sides of the switch are not obstructed. Proper airflow is crucial for heat dissipation, especially given its fanless design.

- **Cable Management:** Keep network cables neatly organized to prevent strain on ports and improve airflow.
- **Power Supply:** Use only the original power adapter provided with the switch.
- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges to prevent damage. Avoid placing it in direct sunlight or near heat sources.

7. TROUBLESHOOTING

If you encounter issues with your Binardat switch, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Power Indicator Light	No power supply or faulty power adapter.	◦ Ensure the power adapter is securely connected to the switch and a working power outlet. ◦ Try a different power outlet. ◦ Verify the power adapter is the correct one provided with the switch.
No Link/ACT Light on a Port	No connection, faulty cable, or device issue.	◦ Ensure the Ethernet cable is securely plugged into both the switch port and the connected device. ◦ Try a different Ethernet cable. ◦ Verify the connected device is powered on and functioning correctly. ◦ Check if the cable length exceeds the maximum recommended length (e.g., 100 meters for Cat5e/6).
Slow Connection Speed	Cable quality, device capability, or network congestion.	◦ Ensure you are using Cat5e or better Ethernet cables for 2.5G speeds. ◦ Verify that your connected devices (e.g., network card, router) support 2.5G or 10G speeds. ◦ Check for excessive network traffic or bandwidth-intensive applications. ◦ Ensure the Link/ACT LED indicates the expected speed (Green for 2.5G/10G, Orange for 1G/100M).
VLAN Mode Not Working as Expected	DIP switch setting or misunderstanding of VLAN function.	◦ Ensure the DIP switch is set to the "VLAN" position (right). ◦ Remember that in VLAN mode, ports 1-8 are isolated from each other but can communicate with port 9 (SFP+). ◦ If you need all ports to communicate freely, set the DIP switch to "Default" (left).

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	8x2.5G+10G SFP
Brand	Binardat
Number of Ports	8x 2.5G RJ45 Ports, 1x 10G SFP+ Port
Interface Type	RJ45, SFP+
Data Transfer Rate	2.5Gbps (RJ45), 10Gbps (SFP+)
Max Power Consumption	10 Watt
Housing Material	Metal
Color	Black
Compatible Devices	Gaming Console, Printer, NAS, Computer, Server, WiFi 6 AP
Components Included	Power cord, 2.5G switch
Special Features	Fanless, Wall-mountable, 4KV Lightning Protection, Port-based VLAN

9. WARRANTY AND SUPPORT

Binardat is committed to providing high-quality products and customer satisfaction. For information regarding warranty coverage, technical support, or any product-related inquiries, please refer to the official Binardat website or contact their customer service directly. Contact details are typically available on the product packaging or the manufacturer's official website.

For the latest drivers, firmware updates, and additional resources, please visit the Binardat support page.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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