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› Binardat 8 Port 2.5G PoE Switch with 10G SFP+ Port Instruction Manual

Binardat 8x2.5G PoE+1x10G SFP Unmanaged

Binardat 8 Port 2.5G PoE Switch with 10G SFP+ Port

Model: 8x2.5G PoE+1x10G SFP Unmanaged

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Binardat 8 Port 2.5G PoE Switch with 10G SFP+ Port. This unmanaged multi-gigabit rackmount Ethernet switch is designed to provide high-speed network connectivity and Power over Ethernet (PoE) capabilities for various applications.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Binardat 2.5G PoE Switch
- Power cord
- Instruction manual

PRODUCT OVERVIEW

The Binardat 8 Port 2.5G PoE Switch features 8 x 2.5 Gigabit RJ-45 Base-T ports and 1 x 10G SFP+ slot. It supports IEEE802.3af/at PoE standards, providing up to 30W per port with a total PoE budget of 130W. The switch is unmanaged, offering plug-and-play functionality and VLAN isolation via a DIP switch.

8-Port 2.5G PoE Switch with 1-Port 10G SFP+

Provide 2.5G speed and power over your existing Cat5e or better cabling



IEEE802.3af/at Support



8x2.5G Ports



10G SFP+ Port



Port-based VLAN



Plug and Play



Strong Heat
Dissipation



Rack Mountable



Sturdy Housing



Image: Front view of the Binardat 8 Port 2.5G PoE Switch, highlighting its 2.5G PoE ports and 10G SFP+ slot.

Front Panel Features

High Performance and Reliable Connection

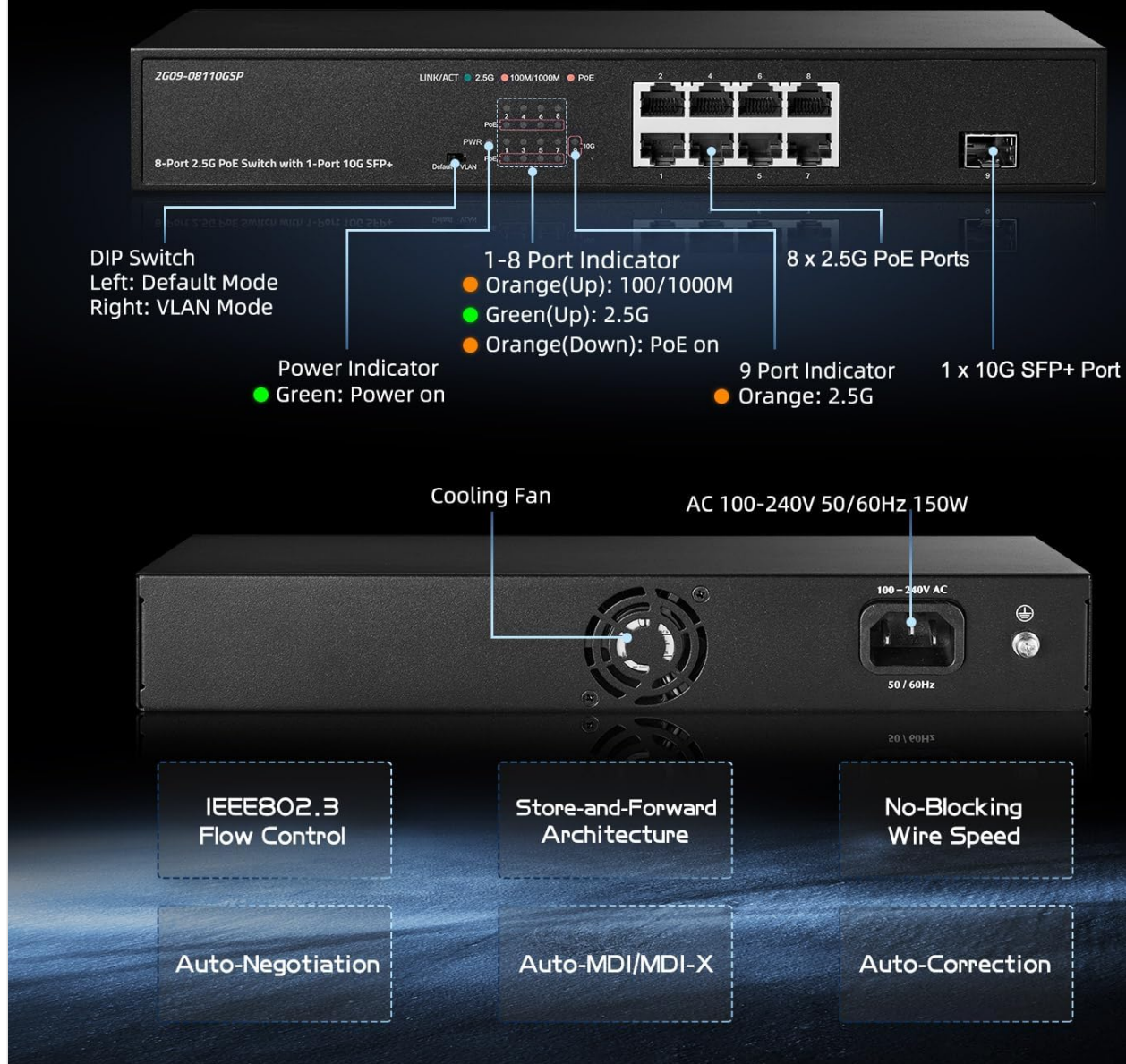


Image: Detailed view of the switch's front and rear panels, showing port indicators, DIP switch, and cooling fan.

- **8 x 2.5G PoE Ports (1-8):** RJ-45 ports supporting 2500Mbps/1000Mbps/100Mbps data rates and IEEE802.3af/at PoE.
- **1 x 10G SFP+ Slot (Port 9):** Supports SR/LR/LRM/ER/ZR modules (not included) and is compatible with 1Gbps rates.
- **LED Indicators:** Power, Link/Act, 2.5G, 100M/1000M, and PoE status for each port.
- **DIP Switch:** Allows selection between Default Mode and VLAN Isolation Mode.

Rear Panel Features

- **AC Power Input:** For connecting the included power cord (AC 100-240V 50/60Hz).
- **Cooling Fan:** Integrated for heat dissipation to ensure stable long-term operation.

SETUP

1. Physical Installation

The switch supports both desktop placement and rack-mounting. Ensure adequate ventilation around the device.

- **Desktop Placement:** Place the switch on a flat, stable surface.
- **Rack-Mounting:** Use the provided mounting ears to secure the switch in a standard server rack.



Image: The switch installed in a server rack, demonstrating its rack-mountable design.

2. Power Connection

1. Connect one end of the included power cord to the AC power input on the rear panel of the switch.
2. Plug the other end of the power cord into a standard AC power outlet.
3. The Power LED indicator on the front panel will illuminate, indicating the switch is powered on.

3. Network Connections

Connect your network devices to the switch using Ethernet cables.

- **RJ-45 Ports (1-8):** Connect your computers, servers, network-attached storage (NAS), or other network devices to these 2.5G ports.
- **10G SFP+ Slot (Port 9):** Insert a compatible SFP+ module (e.g., for fiber optic connection) and connect it to your core network or other high-speed devices.



Image: The switch with multiple Ethernet cables connected to its RJ-45 ports and an SFP+ module inserted, illustrating plug-and-play connectivity.

4. PoE Device Connection

For Power over Ethernet (PoE) devices such as IP cameras, wireless access points, or IP phones, connect them to any of the 8 PoE-enabled RJ-45 ports (1-8). The switch will automatically detect and provide power to compliant IEEE802.3af/at devices.

PoE+ IEEE802.3af/at Support

Compliant with IEEE 802.3af/at PoE standards, automatically detect and provide the required power for PDs



IEEE 802.3af/at
PoE Standard



130W
Total PoE Budget



48V
Port Output Voltage

PoE Devices



IP Camera



Wireless AP



IP Phone



Router



Computer



NVR

Non-PoE Devices



Image: Diagram illustrating how PoE devices (IP camera, wireless AP, IP phone) and non-PoE devices (router, computer, NVR) connect to the switch, with power delivery indicated for PoE devices.

Note: The switch supports automatic PoE device detection. It will not supply power to 24V passive PoE devices.

OPERATING INSTRUCTIONS

Plug and Play Operation

The Binardat PoE switch is unmanaged and requires no configuration. Simply connect the power cord and Ethernet cables, and the switch will automatically negotiate connections with connected devices.

VLAN Isolation Mode

The DIP switch on the front panel allows you to enable VLAN isolation for enhanced network security.

- **Default Mode (DIP Switch Left):** All ports can communicate with each other.
- **VLAN Mode (DIP Switch Right):** When set to "VLAN", ports 1-8 can only communicate with port 9 (the 10G SFP+ slot).

Ports 1-8 cannot communicate with each other, which helps protect the security of individual network segments.



Image: Diagram illustrating port-based VLAN functionality, showing how ports 1-8 are isolated from each other but can communicate with port 9 when VLAN mode is enabled.

LED Indicators

Monitor the status of the switch and connected devices using the LED indicators:

Indicator	Status	Description
PWR	Green	Power On
LINK/ACT (Ports 1-8)	Orange (Up)	100/1000Mbps Link/Activity
	Green (Up)	2.5G Link/Activity
PoE (Ports 1-8)	Orange (Down)	PoE Power On

Indicator	Status	Description
LINK/ACT (Port 9)	Orange	2.5G Link/Activity (for SFP+ module)

MAINTENANCE

To ensure optimal performance and longevity of your 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 that the cooling fan and ventilation openings are not obstructed. Proper airflow is crucial for heat dissipation.
- **Environment:** Operate the switch in a cool, dry environment, away from direct sunlight, heat sources, and excessive moisture.
- **Cable Management:** Keep network cables organized to prevent strain on ports and improve airflow.



Image: Illustration showing airflow for heat dissipation through the side vents of the switch.

TROUBLESHOOTING

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

- **No Power:**
 - Ensure the power cord is securely connected to both the switch and a working power outlet.
 - Check if the Power LED indicator is illuminated.
- **No Network Connection:**
 - Verify that Ethernet cables are properly connected to both the switch port and the network device.
 - Check the Link/Act LED for the corresponding port. If it is off, try a different cable or port, or check the connected device.
 - Ensure the connected device is powered on and functioning correctly.
- **PoE Not Working:**
 - Confirm that the connected device is a standard IEEE802.3af/at compliant PoE Powered Device (PD).
 - Check the PoE LED for the specific port. If it is off, the device may not be receiving power.
 - Ensure the total power consumption of all PoE devices does not exceed the switch's 130W PoE budget.
- **Slow Network Speed:**
 - Verify that your network cables are rated for 2.5G speeds (e.g., Cat5e or better).
 - Check the Link/Act LED color to confirm the negotiated speed (Green for 2.5G, Orange for 100/1000Mbps).

- Ensure connected devices also support 2.5G speeds.

SPECIFICATIONS

Feature	Description
Model Number	8x2.5G PoE+1x10G SFP Unmanaged
Interface Type	8 x 2.5G RJ-45 PoE Ports, 1 x 10G SFP+ Slot
Data Transfer Rate	2500Mbps/1000Mbps/100Mbps (RJ-45), 10Gbps/1Gbps (SFP+)
PoE Standard	IEEE802.3af/at
Max PoE Power Per Port	30W
Total PoE Budget	130W
Power Supply	150W (AC 100-240V 50/60Hz)
Switching Capacity	60G
Features	Plug and Play, VLAN Isolation (DIP Switch), Auto-Negotiation, Auto-MDI/MDI-X, IEEE802.3 Flow Control
Dimensions	14.84 x 9.25 x 3.23 inches
Item Weight	4.93 pounds
Housing	Metal Case, Rackmount/Desktop Design

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Binardat customer service directly. Keep your purchase receipt for warranty claims.

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

Email

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