

Binardat 4x10G Eth + 4x10G SFP Managed

Binardat 8 Port 10 Gigabit Managed Switch User Manual

Model: 4x10G Eth + 4x10G SFP Managed

Brand: Binardat

1. INTRODUCTION

This manual provides comprehensive instructions for the Binardat 8 Port 10 Gigabit Managed Switch. This device is designed to provide high-speed 10GBASE-T and 10G SFP+ connectivity for small to medium-sized business (SMB) networks, offering advanced Layer 2 and Layer 3 management features for enhanced control and performance.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- 1 x Binardat 10G Managed Switch
- 1 x Power Cable
- 1 x User Manual (this document)

3. PHYSICAL OVERVIEW

The Binardat 8 Port 10 Gigabit Managed Switch features a durable metal casing and is designed for efficient heat dissipation. It can be deployed as a desktop unit or wall-mounted.

3.1 Front Panel

The front panel includes 4 RJ45 Ethernet ports and 4 SFP+ slots, along with status indicators and a reset button.

8-Port 10G L3 Lite Web Smart Managed Switch

Provides high-speed 10GBASE-T and 10G SFP+ connectivity for SMB network



4x 10GE
RJ45 Ports



4x 10GE
SFP+ Ports



Layer3/Layer2
Features



Web Smart
Management



360° Heat
Dissipation



Desktop
Wall Mount



Image: Front view of the Binardat 8 Port 10 Gigabit Managed Switch, highlighting the 4 RJ45 ports, 4 SFP+ ports, LED indicators, and reset button.

3.2 Rear Panel

The rear panel typically houses the power input and additional ventilation.

High-Speed 10GBASE-T and 10G SFP+

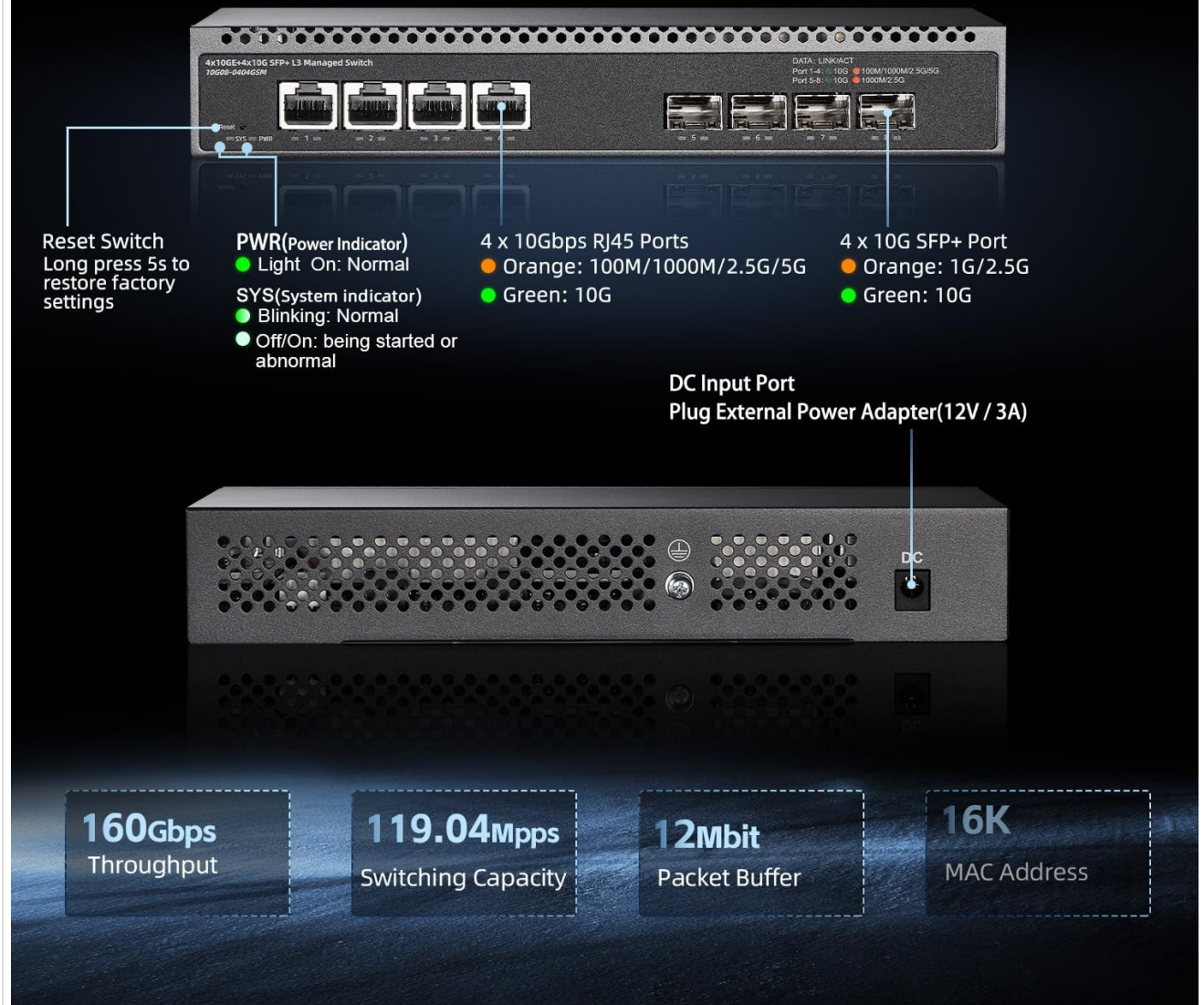


Image: Rear view of the Binardat 8 Port 10 Gigabit Managed Switch, illustrating the DC input port and ventilation for heat management.

3.3 Internal Components and Heat Dissipation

The switch features a robust internal design with dedicated heat sinks and a smart temperature-controlled fan to ensure optimal performance and longevity. The fan operates at varying speeds based on the device's temperature, ensuring efficient cooling while minimizing noise when not under heavy load.

Well Designed

360° Heat Dissipation Design

Extra large heat sink & cooling holes on 5 sides



Heat Dissipation
Improvement

↗ **60%**



Decibel
Reduction

↘ **30%**

Built-in Imported Chip



TVS



MPS Power Chips



Imported Capacitors



6 layers PCB board

Image: Internal view of the switch, revealing the heat sinks and the smart temperature-controlled fan designed for effective heat dissipation.

3.4 Wall Mounting

The switch can be conveniently wall-mounted using the integrated hanging holes.

Wall Mountable and Lightning Protection



Wall Mountable



6KV Lightning Protection

Image: Diagram illustrating the dimensions and the process of wall-mounting the Binardat 8 Port 10 Gigabit Managed Switch.

3.5 Product Overview Video

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Video: An overview of the 10G web managed SFP+ switch, demonstrating its features and connectivity options.

4. SETUP

Follow these steps to set up your Binardat 8 Port 10 Gigabit Managed Switch:

1. **Power Connection:** Connect the provided power cable to the DC input port on the rear panel of the switch and plug it into a power outlet.
2. **Initial Boot-up:** Upon first power-on, the switch may take approximately 30 seconds to 1 minute to boot up. During this period, the internal fan may operate at a higher speed, resulting in increased noise. This is normal, and the fan speed will regulate shortly after boot-up.
3. **Network Connections:** Connect your network devices (e.g., computers, servers, NAS, WiFi6 APs) to the RJ45 Ethernet ports or SFP+ slots using appropriate cables.

4.1 Power-On and Fan Operation

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Video: A teardown and power-on demonstration of the SKS7300-4X4T switch, showing internal components and initial fan behavior during boot-up.

5. OPERATING INSTRUCTIONS

5.1 Web Management Interface Access

To access the switch's web management interface:

1. Ensure your computer is connected to one of the switch's Ethernet ports.
2. Open a web browser and enter the default IP address: 192.168.2.1 (or 192.168.10.12 as shown in some video examples, refer to your specific model's documentation for the exact default IP).
3. Enter the default credentials: User ID: admin, Password: (leave blank).
4. Click 'Login' to access the dashboard.

Layer3 Lite and Layer2 Software Features with Easy-to-use Web Management Interface

Default IP: 192.168.2.1
User Name: admin
Password: admin

Device Info	
Hostname	Switch
Device Contact	Default
Device Location	Default
Device Type	Switch
CPU MAC Address	84-ES-08-E0-AA-F7
VLAN MAC Address	84-ES-08-E0-AA-F6
IP Address	192.168.2.1
Client IP Address	192.168.2.20
Serial Num	5352404110240
Software Version	V200SP10240408
BootRom Version	V2.00
Firmware Compile Date	2024-04-08 16:03:38

4x10GE+4x10G SFP+ L3 Managed Switch
10G08-C404G3M

DATA: LINK/ACT
Port 1-4: 10G 100M/1000M/2.5G/5G
Port 5-8: 10G 1000M/2.5G

Image: Screenshot of the web management interface, showing the login screen and a view of the system information dashboard.

5.2 Saving Configuration Changes

After making any changes in the web interface, it is crucial to save the configuration to ensure your settings are retained after a reboot or power cycle. Navigate to **Maintenance > Save Configuration**, check the box, and click 'Apply'.

5.3 Port Configuration

The switch allows for flexible configuration of its RJ45 and SFP+ ports.

- **RJ45 Ports (10Gbps Ethernet):** These ports are auto-adaptive (10G/5G/2.5G/1G/100M). It is generally recommended to leave auto-negotiation enabled to avoid connectivity issues. Forcing speed manually is not advised for RJ45 ports.
- **SFP+ Ports (10G SFP+):** These ports support standard SFP modules (10G/2.5G/1G adaptive). When connecting to a 10G device, manual speed setting is typically not required. However, for 2.5G or 1G devices, you may need to manually set the correct speed for the specific SFP+ port.
- **DAC/AOC Cables:** If using Direct Attach Copper (DAC) or Active Optical Cables (AOC), navigate to **Port Media Type Config** and select the appropriate DAC length or matching DAC option for AOC cables.

5.4 Web Management and Port Configuration Video

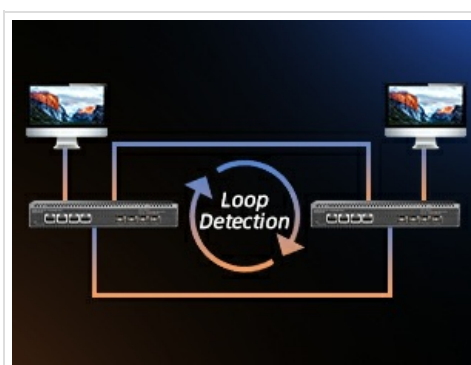
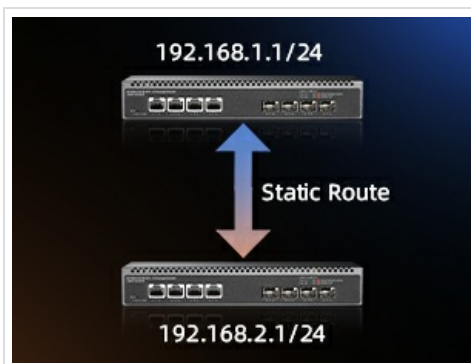
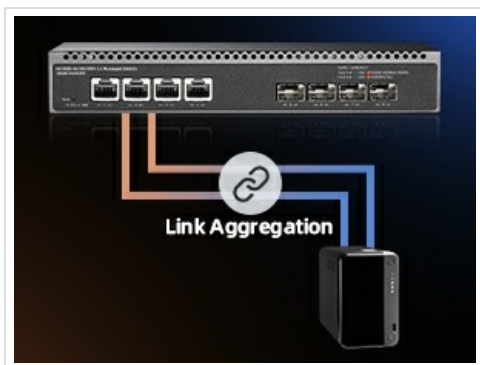
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Video: A detailed guide on navigating the web management interface, including logging in, saving configurations, and configuring port settings for both RJ45 and SFP+ ports.

6. ADVANCED FEATURES

The Binardat Managed Switch supports a range of Layer 2 and Layer 3 features to optimize network performance and security:

- **VLAN Configuration:** Supports VLANs for network segmentation, enhancing security and managing traffic flow.
- **Quality of Service (QoS):** Prioritize critical network traffic (e.g., 8K video, VoIP) to ensure consistent performance.
- **Link Aggregation (LACP):** Combine multiple physical links into a single logical link for increased bandwidth and redundancy.
- **Spanning Tree Protocols (STP/RSTP/MSTP):** Prevent network loops and ensure network stability.
- **Loop Detection:** Automatically detect and mitigate network loops.
- **Static Route:** Configure static routes for efficient data forwarding between different network segments.
- **DHCP Server:** Assign IP addresses automatically to devices on the network.
- **ACL (Access Control List):** Implement security policies to filter network traffic.
- **SNMP:** Monitor and manage network devices remotely.
- **Bandwidth Control:** Manage bandwidth allocation for specific ports or users.



7. MAINTENANCE AND TROUBLESHOOTING

7.1 General Maintenance

- Keep the switch in a well-ventilated area to ensure proper airflow and heat dissipation.
- Regularly check for firmware updates on the manufacturer's website (if available) to ensure optimal performance and security.
- Clean the device periodically with a soft, dry cloth to prevent dust accumulation.

7.2 Troubleshooting Common Issues

- **No Power:** Ensure the power cable is securely connected to both the switch and the power outlet. Verify the power outlet is functional.
- **No Link/Activity LED:** Check the Ethernet or SFP+ cable connections. Ensure the connected device is powered on and functioning correctly. For SFP+ ports, verify the correct media type is configured in the web interface if using DAC/AOC cables or specific SFP modules.
- **Connectivity Issues with RJ45 Ports:** If experiencing intermittent connectivity, ensure auto-negotiation is enabled for the RJ45 ports. Manually forcing speed settings can sometimes cause issues.
- **Fan Noise:** The fan is temperature-controlled. Increased noise during boot-up or under heavy load is normal.

If the fan remains excessively loud during idle operation or if the device feels unusually hot, ensure proper ventilation.

- **Cannot Access Web Interface:** Verify your computer's IP address is in the same subnet as the switch's default IP (e.g., 192.168.2.x or 192.168.10.x). Try resetting the switch to factory defaults if the default IP or login credentials have been forgotten.

7.3 Factory Reset

To reset the switch to its factory default settings, navigate to **Maintenance > Reset > Factory Default** in the web interface, check the box, and click 'Apply'. This will erase all custom configurations.

8. SPECIFICATIONS

Feature	Specification
Model Number	4x10G Eth + 4x10G SFP Managed
Number of Ports	8 (4x 10Gbps RJ45, 4x 10G SFP+)
Interface Type	RJ45, SFP+
Data Transfer Rate	160 Gigabits Per Second (Switching Capacity)
RJ45 Port Speed	Auto-adaptive 10G/5G/2.5G/1G/100M
SFP+ Port Speed	Supports 10G/2.5G/1G SFP modules
Management Type	L3/L2 Web Managed
Network Protocols	IEEE802.3ae, IEEE802.3bz, IEEE802.3ab, IEEE802.3x, IEEE802.3az
Upper Temperature Rating	55 Degrees Celsius
Item Weight	2.86 pounds
Package Dimensions	12.32 x 8.03 x 3.27 inches
Color	Black
Compatible Devices	Desktop, Laptop, Server

9. SAFETY INFORMATION

- Do not expose the device to water or excessive humidity.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.
- Ensure the power adapter is correctly rated for your region's voltage.
- Keep the device away from heat sources and direct sunlight.
- Use only the power cable provided with the device.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Binardat website. Keep your proof of purchase 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

Anonymous

Email

you@example.com

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