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› Binardat 12 Port 10 Gigabit SFP Managed Switch User Manual

Binardat 12x10G SFP Managed

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Model: 12x10G SFP Managed

Brand: Binardat

1. INTRODUCTION AND OVERVIEW

The Binardat 12 Port 10 Gigabit SFP Managed Switch is a high-performance network device designed for demanding network environments. It features 12 SFP+ ports, supporting both 1G and 10G SFP modules, and offers a switching capacity of 240Gbps. This switch provides advanced Layer 2 and Layer 3 management capabilities via Web and Command Line Interface (CLI), making it suitable for core server, NAS, and high-speed fiber network applications in homes, offices, and data centers.

High Performance Full 10G Fiber Switching Solution

12 x 10G SFP+ fiber ports for core server and NAS
Offering maximum performance and low latency

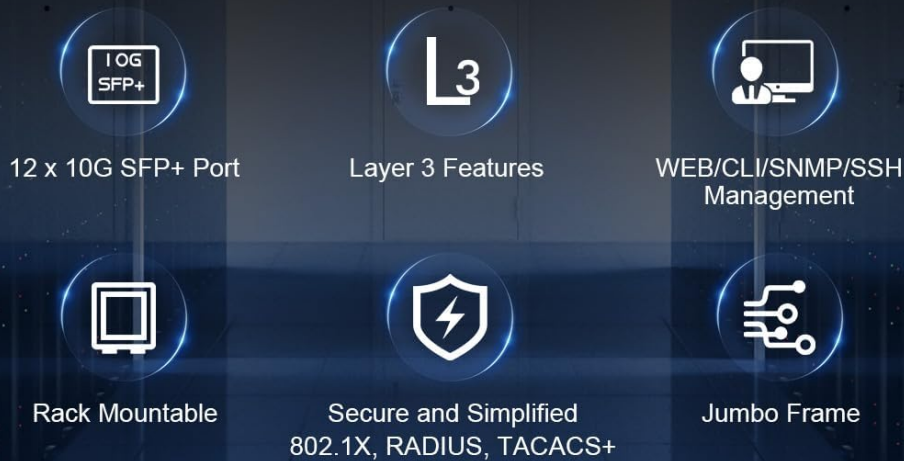


Image 1.1: Front view of the Binardat 12 Port 10 Gigabit SFP Managed Switch, illustrating its 12x 10G SFP+ ports, Layer 3 features, Web/CLI/SNMP/SSH management, rack-mountable design, 802.1X security, and Jumbo Frame support.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- Binardat 12 Port 10 Gigabit SFP Managed Switch

3. PRODUCT FEATURES

- **12 x 10Gbps SFP+ Ports:** Supports 1G, 2.5G, and 10G SFP modules for flexible connectivity. High-quality optical modules and fibers are recommended for optimal transmission rates.
- **L3/L2 Web/CLI Managed:** Comprehensive management features including IPv4/IPv6, static route, OSPF, RIP, BGP4, DHCP server, QoS, ACL, SNMP, STP/RSTP/MSTP (ERPS), bandwidth control, flow control, spanning tree, link aggregation, loop detection, VLAN, and IP-MAC-V binding. Console, Telnet, and SSH access are supported.
- **240Gbps Switching Capacity:** High data bandwidth with non-blocking 10G line-speed forwarding on all ports.

- **Standard SFP Slots:** Open standard SFP slot interface without encryption, compatible with multi-mode, single-mode, and SFP to RJ45 modules. *Note: SFP modules are not included. Direct connection to network cables is not supported without an SFP to RJ45 module.*
- **Versatile Installation:** Metal casing, suitable for rackmount, desktop, and wall mounting. Features industrial fan cooling for high-speed and long-distance fiber networks.

10Gbps SFP+ port and 12KB Jumbo Frame

Expand your network bandwidth and reduce traffic bottlenecks

12KB Jumbo Frame

Transfer more data traffic in the same time

Traditional Switch

This Model

12x
10Gbps SFP+ port

240Gbps
Switching Capacity

178.56Mpps
Throughput

32K
MAC Address

Image 3.1: The switch demonstrating 10Gbps SFP+ port capabilities and 12KB Jumbo Frame support for enhanced network bandwidth and reduced traffic bottlenecks. Key specifications like 12x 10Gbps SFP+ ports, 240Gbps switching capacity, 178.56Mpps throughput, and 32K MAC address table are also shown.

4. SETUP

4.1 Physical Installation

1. **Mounting:** The switch can be installed in a standard 19-inch rack, placed on a desktop, or mounted on a wall. Ensure adequate ventilation around the device.
2. **Power Connection:** Connect the provided power cable to the switch's power input and then to a suitable power

outlet (100-240V AC, 50/60Hz).

3. **SFP Module Installation:** Insert compatible 1G or 10G SFP/SFP+ modules into the SFP+ ports. Connect fiber optic cables to the SFP modules.
4. **Console Port (Optional):** For initial CLI configuration, connect a console cable to the console port on the switch and to a computer.

12-Port 10G SFP+ Optical Ethernet Switch



Image 4.1: Detailed view of the 12-Port 10G SFP+ Optical Ethernet Switch, showing the PWR (Power) and SYS (System) LED indicators, RET (Reset) button, 12x 10Gbps SFP+ Ports, and Console Port. The image also highlights the built-in power supply and various network standards supported.

4.2 Initial Access

To access the switch's management interface:

- **Default IP Address:** 192.168.2.1
- **Default Username:** admin
- **Default Password:** admin

Connect your computer to the switch and configure your computer's IP address to be in the same subnet (e.g., 192.168.2.100). Open a web browser and navigate to the default IP address to access the Web UI. Alternatively, use a terminal emulator for CLI access via the console port or SSH/Telnet.

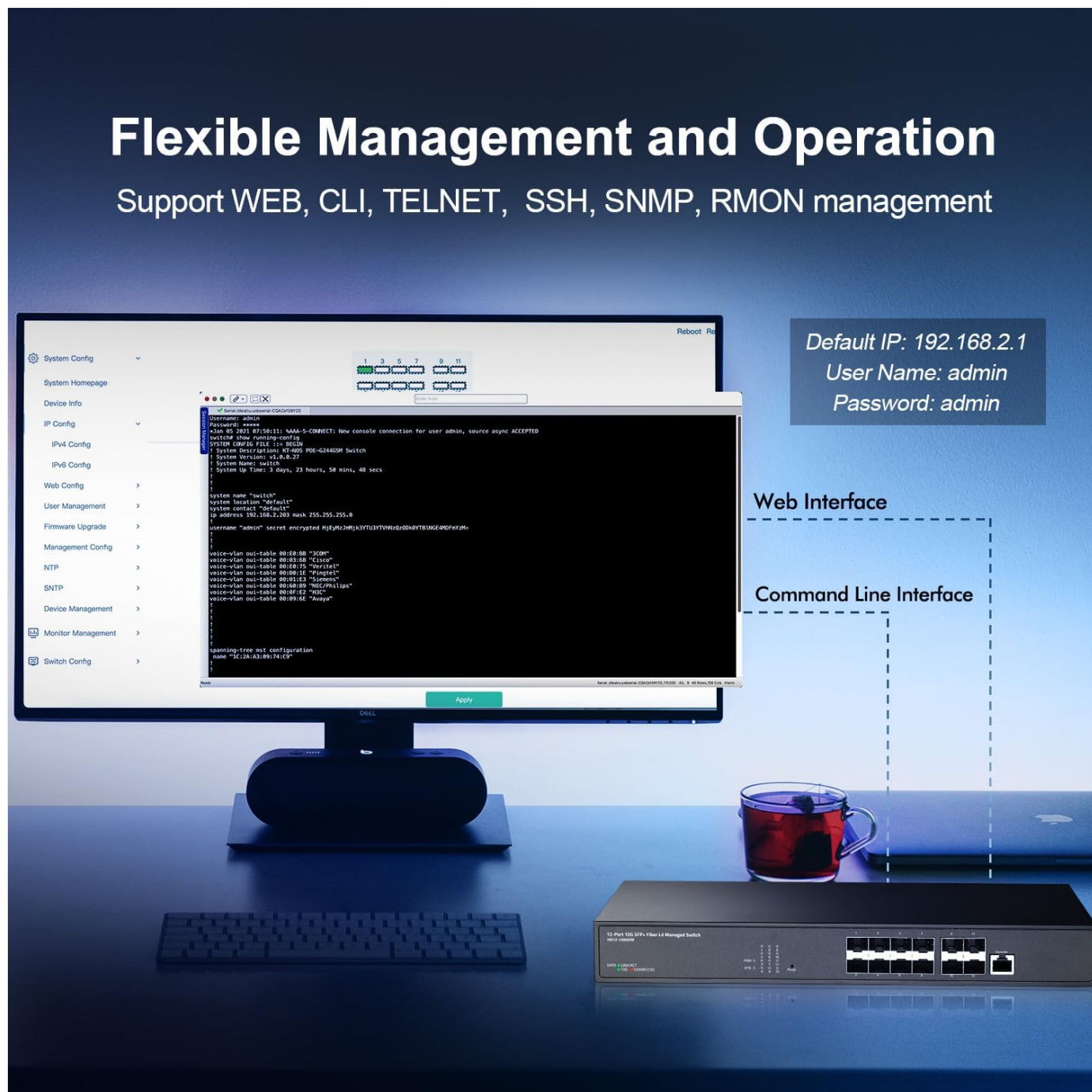


Image 4.2: Illustration of the flexible management options, displaying both the Web Interface and Command Line Interface (CLI) for configuring the switch. The default IP, username, and password are also indicated.

5. OPERATING INSTRUCTIONS

The Binardat 12 Port 10 Gigabit SFP Managed Switch offers extensive management capabilities through its Web UI and CLI. These interfaces allow for detailed configuration and monitoring of network parameters.

5.1 Layer 2 and Layer 3 Features

The switch supports a wide range of Layer 2 and Layer 3 features to optimize network performance and security:

- **Layer 3 Management:** IPv4/IPv6, Static Route, OSPF, RIP, BGP4.
- **Network Services:** DHCP Server, QoS (Quality of Service), ACL (Access Control List), SNMP (Simple Network

Management Protocol).

- **Redundancy Protocols:** STP/RSTP/MSTP (ERPS).
- **Traffic Management:** Bandwidth Control, Flow Control, Spanning Tree, Link Aggregation, Loop Detection.
- **VLAN Configuration:** Supports VLAN for network segmentation.
- **Security:** IP-MAC-V (LAN Port Binding), Device/Port Status Query, 802.1X, RADIUS, TACACS+.



Image 5.1: Visual representation of the Layer 3 managed Ethernet switch, highlighting its powerful software features such as SNMP, Static Routing, DDOS Protection, DHCP, ACL, IGMP, LACP, QoS, and VLAN.

5.2 Configuration via Web UI and CLI

Refer to the detailed user manual (available for download from the manufacturer's website) for specific instructions on configuring each feature. The Web UI provides a graphical interface for easy configuration, while the CLI offers advanced control and scripting capabilities.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Binardat switch.

- **Environmental Conditions:** Ensure the switch operates within the specified temperature range (up to 60°C) and in a clean, dry environment.
- **Firmware Updates:** Regularly check the manufacturer's website for firmware updates to benefit from new features and security enhancements.
- **Cable Management:** Keep fiber optic and power cables organized and free from kinks or excessive bending.
- **SFP Module Quality:** Always use high-quality SFP/SFP+ modules and fiber optic cables to ensure reliable and high-speed data transmission.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid cleaners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

7.1 Optical Module Not Recognized

If an optical module is not recognized, ensure the following:

- Verify that the module is correctly inserted into the SFP+ port.
- Test with a known working, brand new 10G optical module to rule out module compatibility or defect issues.
- Check the module's specifications to ensure it is compatible with the switch's SFP+ ports (1G/2.5G/10G).

7.2 DAC Cable Not Recognized

If a Direct Attach Cable (DAC) is not recognized:

- Access the Web UI of the switch.
- Navigate to **Switch_Config -> Port_Config -> Port_10G_Mode**
- Enable the DAC support switch for the respective port.

7.3 General Network Connectivity Issues

- **Check LED Indicators:** Observe the PWR and SYS LEDs on the switch. PWR should be solid green (Normal), and SYS should be solid green (Normal). Port LEDs indicate link status and activity.
- **Cable Integrity:** Ensure all fiber optic and Ethernet cables are securely connected and undamaged.
- **IP Configuration:** Verify that connected devices have correct IP configurations and are in the same subnet as required for communication.
- **Reset:** If issues persist, a short press of the RET (Reset) button will restart the switch. Pressing and holding the RET button for 5 seconds will restore factory settings.

8. SPECIFICATIONS

Feature	Specification
Brand	Binardat
Model Number	12x10G SFP Managed
Manufacturer Part Number	10G12-1200GSM
Included Components	10G Switch
Color	Black

Feature	Specification
Compatible Devices	Desktop, Laptop
Item Weight	2.66 Kilograms
Number of Ports	12
Power Supply Voltage	12 Volts (DC)
Upper Temperature Range	60 Degrees Celsius
Interface	SFP, SFP+
Data Transfer Rate	240 Gigabit per Second
Switch Type	Managed
Platform	Platform Independent
Housing Material Type	Metal
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Binardat website. 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

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