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› Binardat 10 Port Gigabit Industrial Managed PoE Switch User Manual

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Model: **10 Port Gigabit PoE Managed**

Brand: **Binardat**

1. PRODUCT OVERVIEW

The Binardat 10 Port Gigabit Industrial Managed PoE Switch is a robust networking device designed for demanding industrial environments. It features 8 Gigabit PoE ports and 2 Gigabit SFP slots, offering a 20Gbps switching capacity. This L2+ managed switch supports various advanced network functions including VLAN, routing, ring topology, ACL, and QoS, configurable via web or command-line interface.



Figure 1.1: Front view of the Binardat 10 Port Gigabit Industrial Managed PoE Switch, showcasing its compact design and port layout.

Key features include IEEE802.3af/at PoE support on ports 1-8, industrial IP40 rated aluminum alloy casing for durability, and a wide operating temperature range of -40°C to 75°C. It also incorporates dual redundant power inputs for enhanced reliability.

2. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition:

- Industrial Switch (1 unit)
- DIN rail kit (1 set)

If any items are missing or damaged, please contact customer support immediately.

3. SETUP AND INSTALLATION

3.1 Power Requirements

The switch requires a DC input voltage of 48-55V for PoE functionality. It supports dual redundant power inputs, allowing for automatic switchover in case one power source fails. A power supply is not included by default.

Dual Redundant Power Inputs Design



Wide Voltage
Input(DC12-58V)



Redundancy
Power Supply



Overcurrent
4.0A Protection



Reverse
Connection Protection



Note: Not include power supply

Figure 3.1: Illustration of the dual redundant power input design, highlighting the robust power connection terminals.

3.2 Physical Installation

The switch is designed for both DIN-rail and wall mounting. Use the provided DIN rail kit for secure installation in industrial cabinets or on a wall.

Well Designed for Industrial Environments



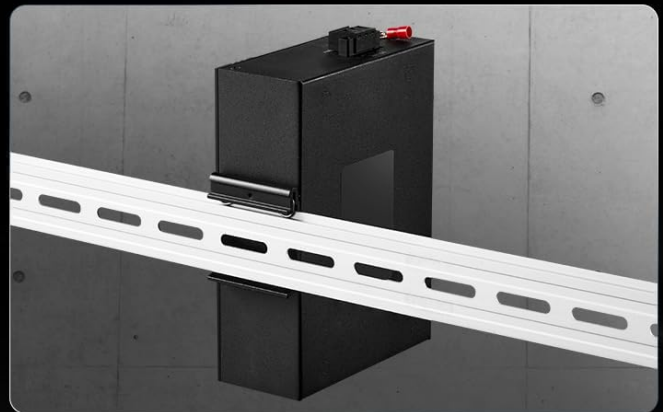
Compact Size
5.63 x 4.09x 1.81 inch



4KV Lightning Protection



Fanless and Sturdy Housing



DIN Rail Mountable

Figure 3.2: The switch shown mounted on a DIN rail, demonstrating its compact size and suitability for industrial installations.

3.3 Port Connections

Connect network devices to the 8 Gigabit Ethernet ports (10/100/1000Mbps adaptive). For fiber optic connections, utilize the 2 Gigabit SFP slots (modules not included). PoE devices such as cameras and access points can be connected to ports 1-8, which support IEEE802.3af/at standards (max 30W per port).

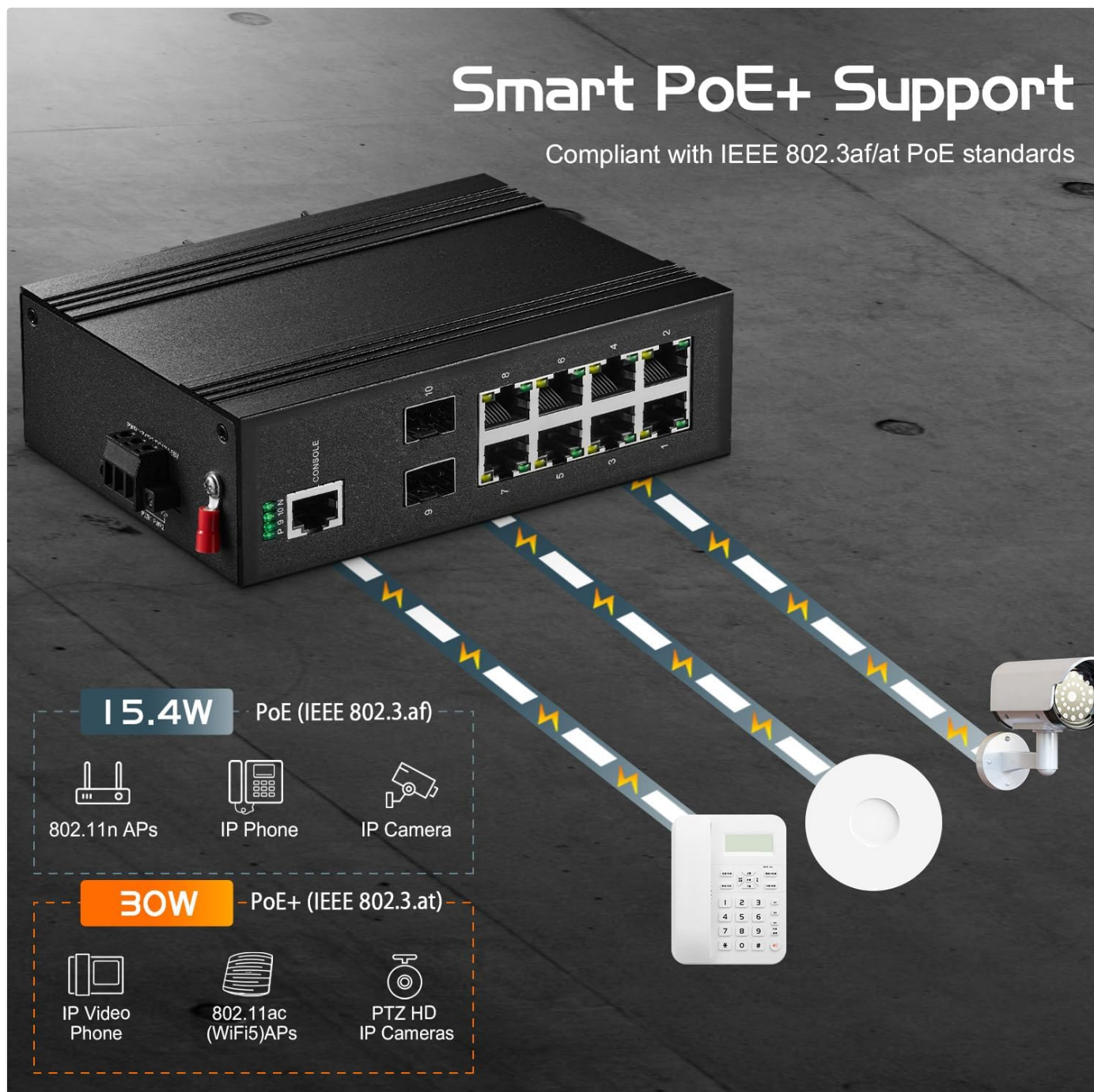


Figure 3.3: Diagram illustrating PoE+ support, showing how the switch powers various devices like IP cameras and IP phones.

3.4 Initial Configuration

The default IP address for web management is **192.168.2.1**. The default username is **admin** and the default password is **admin**. It is highly recommended to change the default password upon first login for security purposes.

4. OPERATING THE SWITCH

4.1 Management Interfaces

The switch can be managed via a web-based graphical user interface (GUI) or through a command-line interface (CLI) accessible via console, TELNET, or SSH. SNMP and RMON management are also supported.

Flexible Management and Operation

Support WEB, CLI, TELNET, SSH, SNMP, RMON management

Default IP: 192.168.2.1

User Name: admin

Password: admin

Web Interface

Command Line Interface

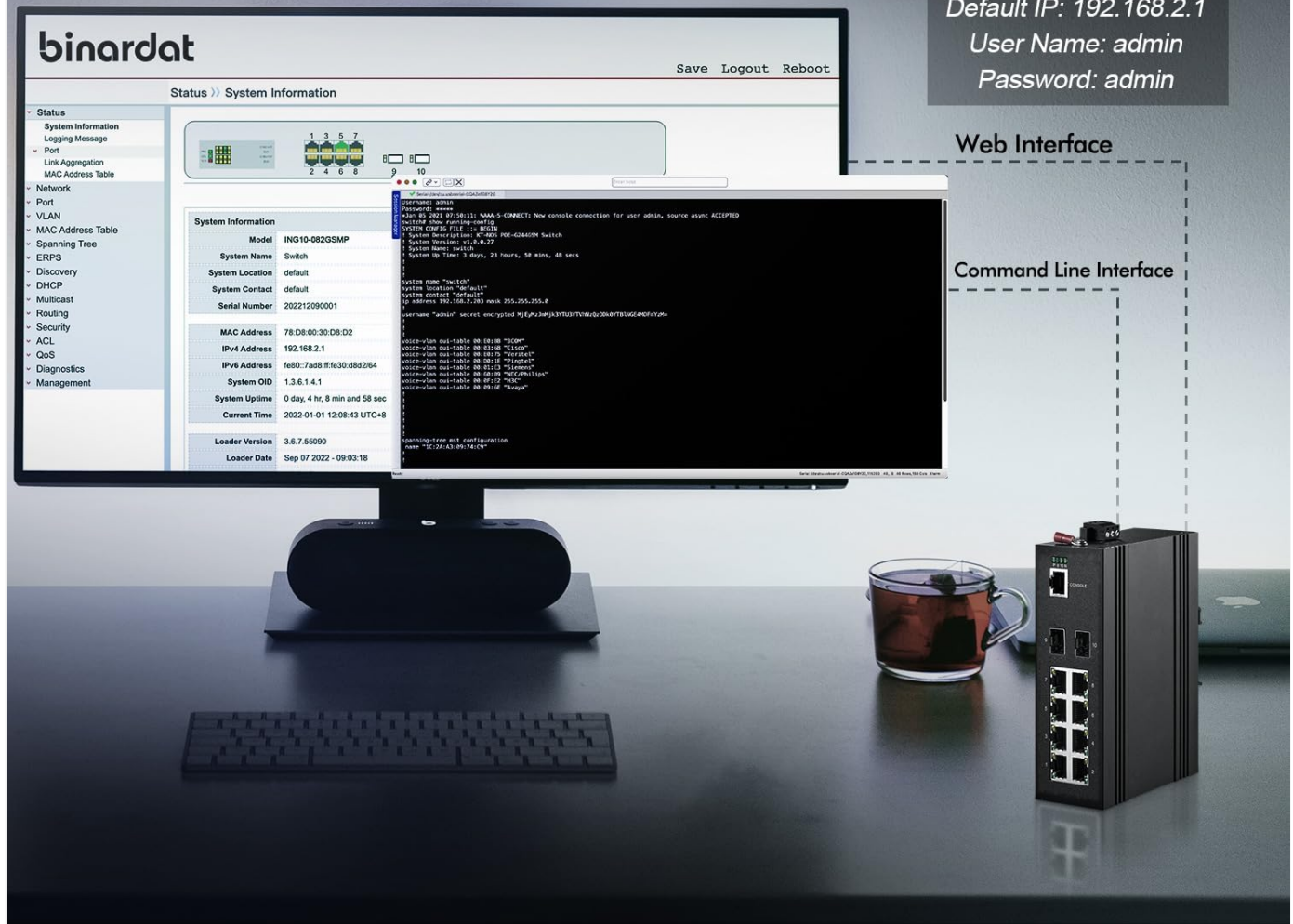


Figure 4.1: Screenshot depicting both the web interface and command-line interface for managing the switch.

4.2 L2+ Managed Features

The switch offers comprehensive Layer 2+ management capabilities, including:

- **VLAN:** Support for 4K VLANs for network segmentation.
- **MAC Table:** 8K MAC address table for efficient forwarding.
- **ACL/QoS:** Access Control Lists and Quality of Service for traffic management.
- **Port Security:** Enhanced security features per port.
- **Flow Control:** Prevents packet loss during network congestion.
- **Spanning Tree Protocols:** STP/RSTP/MSTP for loop prevention.
- **Storm Suppression:** Mitigates broadcast, multicast, and unknown unicast storms.
- **Ring/Star Network Topology:** Supports various network designs.
- **L3 Features:** IPV4/IPV6, ARP, Static Routing, DHCP.

Layer2+ Managed Industrial Switch with Powerful Software Features

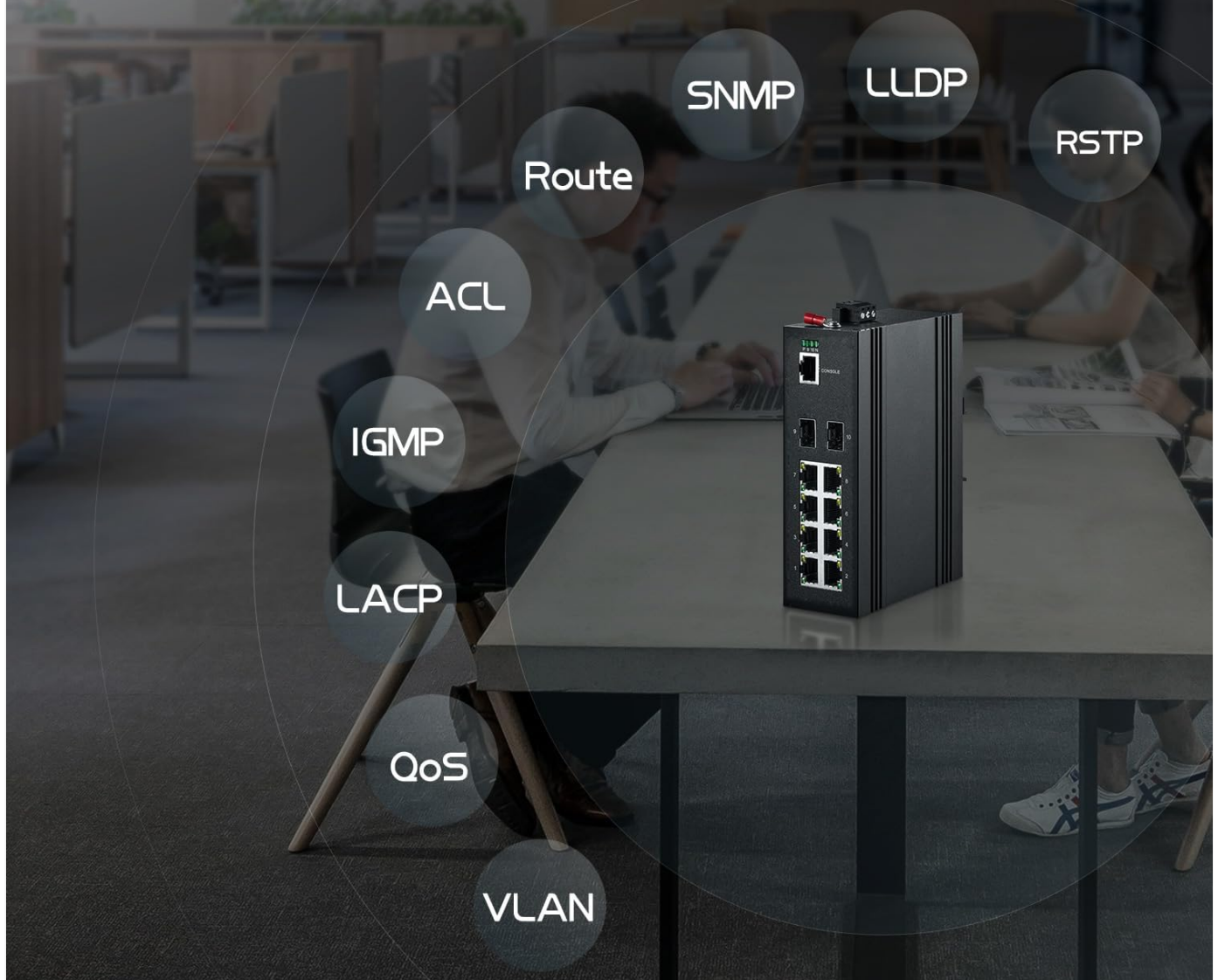


Figure 4.2: Visual representation of the various L2+ software features supported by the switch, such as SNMP, LLDP, RSTP, Route, ACL, IGMP, LACP, QoS, and VLAN.

4.3 LED Indicators

The switch is equipped with LED indicators for both power supply and individual ports, allowing for clear observation of the device's running status and network activity.

5. MAINTENANCE

The Binardat industrial switch is designed for minimal maintenance due to its robust construction and fanless design.

5.1 Environmental Considerations

The device is built with an IP40 rated aluminum alloy casing and industrial-grade electronic components, enabling operation in extreme temperatures from -40°C to 75°C (-40°F to 185°F). Ensure the operating environment remains within these specified temperature limits to guarantee optimal performance and longevity.

Suitable for Industrial Environments

IP40 Metal Housing and -30 to +75°C Wide Range of Operating Temperature



Figure 5.1: Visual demonstrating the switch's resilience to both low (-30°C) and high (+75°C) temperatures, suitable for harsh industrial settings.

5.2 Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth to prevent dust accumulation. Do not use liquid cleaners or aerosols directly on the device.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Issue: Device not powering on.

Solution: Verify that the power supply is correctly connected and providing the required 48-55V DC. Check the power LED indicators on the switch. Ensure the power source is active. The dual redundant power input design allows for automatic switchover if one input fails.

Issue: No network connectivity on a port.

Solution: Check the link/activity LED for the specific port. Ensure the Ethernet cable is securely connected at both ends. Verify the connected device is powered on and functioning correctly. For PoE ports, ensure the connected device is PoE compatible (IEEE802.3af/at) and that the power supply to the switch is sufficient (48-55V DC).

Issue: Cannot access the web management interface.

Solution: Ensure your computer's IP address is in the same subnet as the switch's default IP (192.168.2.1). Verify network cable connection. Try accessing via CLI if web access fails. Reset the switch to factory defaults if necessary (refer to advanced configuration guide for procedure).

Issue: PoE device not receiving power.

Solution: Confirm the PoE device is IEEE802.3af/at compliant. Passive 24V PoE is not supported. Ensure the switch's power input is 48-55V DC, as lower voltage will not enable PoE. Check the power consumption of the device; each PoE port supports up to 30W.

7. SPECIFICATIONS

Feature	Description
Model Number	10 Port Gigabit PoE Managed
Number of Ports	10 (8 Gigabit Ethernet PoE, 2 Gigabit SFP)
Data Transfer Rate	20 Gigabits Per Second (Switching Capacity)
PoE Standard	IEEE802.3af/at (Max 30W per port)
Input Voltage	48-55 Volts DC (for PoE)
Case Material	Aluminum (IP40 Rated)
Operating Temperature	-40°C to 75°C (-40°F to 185°F)
Interface Type	PoE, SFP
Item Weight	1.6 pounds
Package Dimensions	7.4 x 6.5 x 2.5 inches
Color	Black
Included Components	Industrial Switch, Din rail kit

8. WARRANTY AND SUPPORT

8.1 Product Warranty

This Binardat product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Binardat website. Extended protection plans may be available for purchase separately.

8.2 Technical Support

For technical assistance, troubleshooting, or any inquiries regarding your Binardat 10 Port Gigabit Industrial Managed PoE Switch, please visit the official Binardat support page or contact their customer service. You can find contact information on the Binardat brand store page on Amazon: [Binardat Store](#).

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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.

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