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› Binardat 10 Port Gigabit L2+ Managed Industrial PoE Switch User Manual

Binardat ING10-082GSMP

Binardat 10 Port Gigabit L2+ Managed Industrial PoE Switch User Manual

Model: ING10-082GSMP

Brand: Binardat

INTRODUCTION

This manual provides comprehensive instructions for the Binardat 10 Port Gigabit L2+ Managed Industrial PoE Switch. This device is designed to offer a reliable and convenient industrial network solution, featuring robust construction and advanced management capabilities. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.



Figure 1: Binardat 10 Port Gigabit L2+ Managed Industrial PoE Switch overview, highlighting features like IEEE 802.3af/at support, redundant power supply, IP40 protection, Gigabit ports, L2 features, Web+CLI interface, DIN rail mountable, and -30°C to +75°C operating temperature.

SETUP

1. Package Contents

Verify that the following items are included in your package:

- Industrial PoE Switch
- DIN Mount Kit
- User Manual

2. Physical Installation

The switch supports both DIN rail and wall mounting. Use the provided DIN Mount Kit for installation.

Well Designed for Industrial Environments



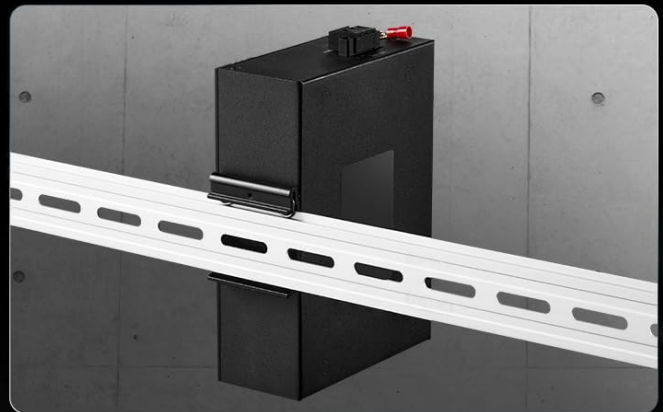
Compact Size
5.63 x 4.09x 1.81 inch



4KV Lightning Protection



Fanless and Sturdy Housing



DIN Rail Mountable

Figure 2: The switch's compact size (5.63 x 4.09 x 1.81 inches), 4KV lightning protection, fanless and sturdy housing, and DIN rail mountable design, suitable for industrial environments.

3. Power Connection

The switch features a dual redundant power input design for enhanced reliability. Connect a DC power supply (not included) to the terminal block. The input voltage for PoE functionality must be 48-55V DC. The switch supports a wide voltage input range of DC12-58V.

Important: For PoE to function, the input voltage must be 48-55V DC. Passive 24V PoE is not supported.

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: Dual redundant power inputs (PWR1, PWR2) supporting DC12-58V, with features like wide voltage input, redundancy power supply, 4.0A overcurrent protection, and reverse connection protection. Note: Power supply is not included.

4. Network Connections

- **Ethernet Ports (1-8):** Connect your PoE-compatible devices (e.g., IP cameras, IP phones, wireless access points) or standard network devices using RJ45 Ethernet cables. These ports support 10/100/1000Mbps adaptive speeds.
- **SFP Slots (9-10):** Insert Gigabit SFP modules (not included) for fiber optic connections. These slots support single/multi-fiber connections.
- **Console Port:** Use the console port for Command Line Interface (CLI) management.

OPERATING INSTRUCTIONS

1. Power over Ethernet (PoE) Functionality

Ports 1-8 support IEEE 802.3af/at PoE standards, providing up to 30W of power per port. This allows for direct power and data transmission to compatible devices over a single Ethernet cable.

Smart PoE+ Support

Compliant with IEEE 802.3af/at PoE standards



Figure 4: Smart PoE+ support compliant with IEEE 802.3af/at PoE standards. Illustrates 15.4W PoE (IEEE 802.3af) for devices like 802.11n APs, IP Phones, and IP Cameras, and 30W PoE+ (IEEE 802.3at) for IP Video Phones, 802.11ac (WiFi5) APs, and PTZ HD IP Cameras.

2. L2+ Management Features

The switch offers advanced Layer 2+ management capabilities via Web and Command Line Interface (CLI). Key features include:

- **VLAN:** Supports 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.
- **Security:** Port security and flow control.
- **Spanning Tree Protocols:** STP/RSTP/MSTP for loop prevention.
- **Storm Suppression:** Prevents network broadcast storms.
- **Network Topology:** Supports ring/star network topologies.
- **L2+ Functions:** Includes IPv4/IPv6, ARP, static routing, and DHCP.

Layer2+ Managed Industrial Switch with Powerful Software Features

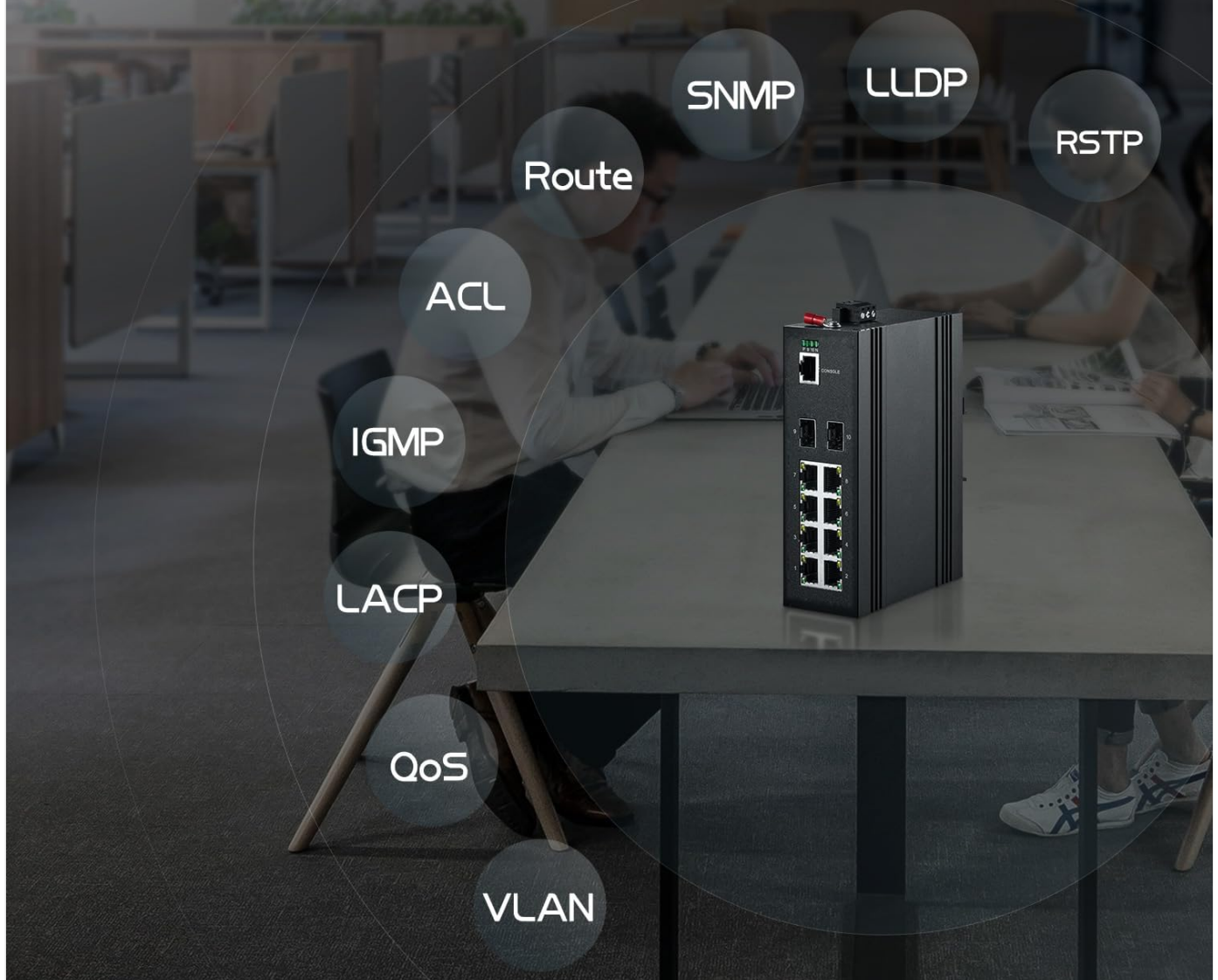


Figure 5: Layer2+ Managed Industrial Switch with powerful software features such as SNMP, LLDP, RSTP, Route, ACL, IGMP, LACP, QoS, and VLAN.

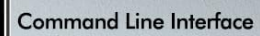
3. Management Access

The switch can be managed via a web interface or Command Line Interface (CLI).

- **Web Interface:** Access the web interface by connecting a computer to one of the switch's Ethernet ports and navigating to the default IP address: [192.168.2.1](#). Default Username: [admin](#), Default Password: [admin](#).
- **CLI:** Connect to the console port using a serial cable and a terminal emulator. Supports TELNET, SSH, SNMP, and RMON management.

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

Password: admin



4. LED Indicators

MAINTENANCE

The switch features a robust IP40-rated aluminum alloy housing and industrial-grade electronic components, ensuring durability and reliable operation in harsh environments.

Suitable for Industrial Environments

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



Figure 7: The switch is suitable for industrial environments, featuring an IP40 metal housing and a wide operating temperature range from -30°C (low temperature resistant) to +75°C (high temperature resistant).

2. Environmental Resilience

Designed for industrial use, the switch operates reliably in temperatures ranging from -40°C to 75°C (-40°F to 185°F). It includes lightning protection, anti-static protection, and overload protection.

3. Redundant Power for Continuous Operation

The dual-way industrial-grade power interfaces automatically switch to the secondary power source in case of a primary power failure, ensuring high reliability and continuous business operation without downtime.

4. Fanless Design

The fanless design, coupled with a heat sink for heat dissipation, ensures quiet operation and energy efficiency.

TROUBLESHOOTING

1. No Power

- Ensure the power supply is correctly connected to the terminal block.
- Verify that the power supply is providing the correct voltage (DC12-58V).
- Check the power LED indicators on the switch.

2. No PoE Output

- Confirm that the input DC voltage is within the 48-55V range required for PoE.
- Ensure the connected device is PoE-compatible (IEEE 802.3af/at standard).
- Check the PoE status LEDs for the respective ports.
- Verify that the total power budget is not exceeded.

3. Network Connectivity Issues

- Check Ethernet cable connections for all devices.
- Verify port link/activity LEDs.
- Ensure IP address settings are correct for managed access (default 192.168.2.1).
- If using SFP ports, ensure SFP modules are correctly inserted and compatible.

4. Accessing Management Interface

- If unable to access the web interface, ensure your computer's IP address is in the same subnet as the switch (e.g., 192.168.2.x).
- Confirm default login credentials (admin/admin).
- For CLI access, ensure the console cable is properly connected and terminal emulator settings are correct.

SPECIFICATIONS

Model Number	ING10-082GSMP
Brand	Binardat
Number of Ports	10 (8 Gigabit PoE, 2 Gigabit SFP)
Ethernet Ports	8 x 10/100/1000Mbps RJ45 (PoE)
SFP Ports	2 x 1000Mbps SFP (supports Single/Multi Fiber)
Switching Capacity	20 Gbps
PoE Standard	IEEE 802.3af/at
Max PoE Power per Port	30W
Input Voltage	DC 12-58V (DC 48-55V for PoE)
Operating Temperature	-40°C to 75°C (-40°F to 185°F)
Housing Material	Aluminum Alloy
IP Rating	IP40
Management	Web, CLI, TELNET, SSH, SNMP, RMON

Dimensions	5.63 x 4.09 x 1.81 inches (14.3 x 10.4 x 4.6 cm)
Compatible Devices	Camera, Printer, Smartphone, Tablet, Laptop, Server, Desktop

WARRANTY AND SUPPORT

Information regarding product warranty, availability of spare parts, and guaranteed software updates is not provided in the product details. For specific warranty terms, technical support, or service inquiries, please contact Binardat directly or refer to their official website.

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