

LANTRONIX XP1001000-05R-AP

LANTRONIX XP1001000-05R-AP XPORT 05R User Manual

Model: XP1001000-05R-AP

1. INTRODUCTION

The LANTRONIX XP1001000-05R-AP XPORT 05R is a compact, integrated serial-to-Ethernet device server designed to enable network connectivity for virtually any device with a serial port. It provides a simple and cost-effective way to bring the advantages of network connectivity to a wide range of equipment, allowing remote access, management, and control over an IP network. This manual provides essential information for the proper setup, operation, and maintenance of your XPORT 05R.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the device.

- **Electrical Safety:** Use only the power adapter supplied with the device. Ensure the power source matches the voltage requirements specified on the device label. Do not operate the device with damaged power cords or plugs.
- **Environmental Conditions:** Operate the device in a well-ventilated area. Avoid exposure to extreme temperatures, direct sunlight, high humidity, or liquids. Do not block ventilation openings.
- **Handling:** Handle the device with care. Do not drop or subject it to strong impacts. Do not attempt to open or modify the device; doing so will void the warranty.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.

3. PACKAGE CONTENTS

Verify that all items are present in your package. If any items are missing or damaged, contact your vendor immediately.

- LANTRONIX XP1001000-05R-AP XPORT 05R Device
- Quick Start Guide (Printed or Digital)
- Power Adapter (if applicable to your model)
- Ethernet Cable (optional, may not be included)

4. SETUP

Follow these steps to set up your XPORT 05R device:

1. **Unpack the Device:** Carefully remove the XPORT 05R and all accessories from its packaging.
2. **Connect Power:** Connect the power adapter to the XPORT 05R's power input port, then plug the adapter into a suitable electrical outlet. The Power LED should illuminate.
3. **Connect to Network:** Connect one end of an Ethernet cable to the XPORT 05R's Ethernet port and the other end to your network switch or router. The Link/Activity LED should indicate network connection.
4. **Connect Serial Device:** Connect your serial device (e.g., sensor, PLC, POS terminal) to the XPORT 05R's serial port using an appropriate serial cable. Ensure the serial port settings (baud rate, data bits, parity, stop bits) match those of your serial device.
5. **Initial Configuration:** The XPORT 05R can typically be configured via a web browser interface or a dedicated utility. Refer to the Quick Start Guide for initial IP address discovery and access instructions. You may need to assign a static IP address or configure DHCP settings based on your network requirements.

5. OPERATING INSTRUCTIONS

Once the XPORT 05R is set up and configured, it operates largely autonomously.

- **Power On/Off:** The device powers on automatically when connected to a power source. To power off, disconnect the power adapter.
- **LED Indicators:**
 - **Power LED:** Indicates the device is receiving power.
 - **Link/Activity LED:** Indicates Ethernet link status and network activity.
- **Accessing the Device:** Access the device's web interface by entering its IP address into a web browser. This interface allows for advanced configuration, status monitoring, and firmware updates.
- **Data Transmission:** The XPORT 05R transparently converts serial data to Ethernet packets and vice-versa, enabling your serial device to communicate over the network as if it were directly connected.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your XPORT 05R.

- **Cleaning:** Keep the device clean and free of dust. Use a soft, dry, lint-free cloth. Do not use harsh chemicals or abrasive materials.
- **Firmware Updates:** Periodically check the LANTRONIX website for firmware updates. Firmware updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided with the firmware update package carefully.
- **Environmental Check:** Ensure the operating environment remains within the recommended temperature and humidity ranges to prevent overheating or moisture damage.

7. TROUBLESHOOTING

If you encounter issues with your XPORT 05R, refer to the following troubleshooting tips:

| Problem | Possible Cause | Solution |
|---------------------------------|---|--|
| No Power LED indication | Device not receiving power. | Check power adapter connection to device and wall outlet. Ensure outlet is functional. Try a different power outlet. |
| No Link/Activity LED indication | No Ethernet link or network issue. | Verify Ethernet cable is securely connected to both the XPORT 05R and the network switch/router. Check the status of the network switch/router port. Try a different Ethernet cable. |
| Cannot access web interface | Incorrect IP address, network configuration issue, or device not powered/connected. | Ensure the XPORT 05R is powered on and connected to the network (check LEDs). Verify you are using the correct IP address. Ensure your computer is on the same subnet as the XPORT 05R. Consult the Quick Start Guide for default IP or discovery methods. |
| Serial device not communicating | Incorrect serial port settings or cable. | Verify that the serial port settings (baud rate, data bits, parity, stop bits) configured on the XPORT 05R match those of your serial device. Ensure the serial cable is correctly wired and securely connected. |

If the problem persists after trying these solutions, contact LANTRONIX technical support.

8. SPECIFICATIONS

Key technical specifications for the LANTRONIX XP1001000-05R-AP XPORT 05R:

- **Model:** XP1001000-05R-AP
- **Manufacturer:** LANTRONIX
- **Product Type:** Embedded Device Server (Serial-to-Ethernet)
- **Connectivity:** Ethernet, Serial (UART)
- **Compliance:** ROHS
- **ASIN:** B0CZJZFP49

- **Date First Available:** March 31, 2024
- **Power Input:** (Refer to device label for specific voltage/current requirements)
- **Operating Temperature:** (Refer to product datasheet for specific range)

9. WARRANTY AND SUPPORT

The LANTRONIX XP1001000-05R-AP XPORT 05R comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official LANTRONIX website for detailed warranty terms and conditions.

For technical support, product documentation, or further assistance, please visit the LANTRONIX support portal or contact their customer service department. Contact information can typically be found on the LANTRONIX official website.

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