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> [Protectli Vault Pro VP2430-4 Port Micro Appliance/Mini PC Instruction Manual](#)

Protectli VP2430

Protectli Vault Pro VP2430-4 Port Micro Appliance/Mini PC

INSTRUCTION MANUAL

Introduction

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your Protectli Vault Pro VP2430-4 Port Micro Appliance/Mini PC. Please read these instructions carefully before using the device to ensure proper functionality and longevity.

Setup

Follow these steps to set up your Protectli Vault Pro VP2430-4.

1. Unboxing and Component Check

Carefully unpack all components from the box. Verify that all items are present:

- Protectli Vault Pro VP2430-4 unit
- Power adapter and cable
- Mounting bracket and screws (if included)
- USB Type-C console cable



Image: Included accessories, including the power adapter, mounting bracket, screws, and USB console cable.

2. Physical Connections

Connect the necessary cables to the device ports. Refer to the image below for port identification.



Image: Rear panel of the Protectli Vault Pro VP2430-4, displaying various ports including USB, HDMI, DisplayPort, and USB-C console port.

- **Power:** Connect the power adapter to the DC 12V input port and then to a power outlet.
- **Network:** Connect Ethernet cables to the 2.5G NIC ports (labeled 1-4) as required for your network configuration.
- **Display:** If a display is needed for initial setup or monitoring, connect a monitor to the HDMI or DisplayPort output.
- **USB Devices:** Connect any necessary USB peripherals (keyboard, mouse) to the USB 2.0 or USB 3.2 Type C ports.
- **Console:** For serial console access, connect the provided USB Type-C console cable to the console port and your computer.

3. First Boot

After all connections are made, press the power button located on the front panel. The device will power on. Since no operating system is pre-installed, you will need to install your preferred firewall or operating system software.

Operating Instructions

The Protectli Vault Pro VP2430-4 is designed as a micro appliance for network security and mini PC applications. It does not come with a pre-installed operating system, allowing for maximum flexibility.

Software Compatibility

This hardware is tested for compatibility with various open-source firewall software solutions, including OPNsense, pfSense, and VyOS. It also supports other popular open-source software solutions. The device ships with AMI BIOS.

Typical Usage Scenarios

- **Firewall/Router:** Utilize the multiple 2.5G NICs to create a robust and secure network gateway.
- **Mini PC:** Install a lightweight operating system for various computing tasks.
- **Virtualization:** Deploy hypervisors for running virtual machines.

Maintenance

Regular maintenance ensures optimal performance and longevity of your device.

Cleaning

To clean the exterior of the device, use a soft, dry cloth. Avoid using liquid cleaners or solvents, as these can damage the finish or internal components. Ensure the device is powered off and unplugged before cleaning.

Firmware Updates

Periodically check the Protectli website for BIOS/firmware updates. Updating the firmware can improve stability, performance, and security. Follow the instructions provided with the firmware update package carefully.

Hardware Upgrades (RAM/Storage)

The Protectli Vault Pro VP2430-4 supports upgrades for RAM and M.2 SATA SSD storage. To perform an upgrade:

1. Power off the device and disconnect all cables.
2. Carefully remove the screws securing the bottom cover.
3. Gently lift the cover to expose the internal components.



Image: Internal view of the Protectli Vault Pro VP2430-4, showing the motherboard, RAM slots, and M.2 SSD slots.

Locate the SODIMM DDR5 RAM slots and M.2 SATA SSD slot. Install or replace components according to their respective instructions. Ensure components are seated correctly before reattaching the cover and screws.

Troubleshooting

This section addresses common issues you might encounter.

No Power

- Ensure the power adapter is securely connected to the device and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Check the power adapter for any visible damage.

No Display Output

- Confirm the monitor is powered on and correctly connected to the device's HDMI or DisplayPort.
- Try a different display cable or monitor.
- Ensure the correct input source is selected on your monitor.

Network Connectivity Issues

- Check that Ethernet cables are securely connected to both the device and your network equipment.
- Verify the status indicator lights on the Ethernet ports.
- Ensure your installed operating system or firewall software is correctly configured for network interfaces.

Specifications

Model	VP2430
CPU	Intel N150 Quad Core (up to 3.6GHz, 6MB Cache)
RAM	32GB SO-DIMM DDR5 RAM
Storage	1000GB NVMe SSD, 32GB eMMC on-board
Network Interfaces	4x Intel I226-V 2.5G NICs
USB Ports	2x USB 3.2 Type C with DisplayPort, 4x USB 2.0 Type A, 1x USB Type C Console
Video Output	1x HDMI, 1x DisplayPort (via USB-C)
Graphics Coprocessor	Intel UHD Graphics 630
Hardware Platform	PC
Dimensions (LxWxH)	5.67 x 5.63 x 2.17 inches
Weight	4.1 pounds
Power Source	DC
Batteries	1 CR2 battery required (included)

Warranty and Support

Warranty Information

Your Protectli Vault Pro VP2430-4 comes with a 30-day money-back guarantee. For specific warranty terms and conditions, please refer to the official Protectli website or contact customer support.

Customer Support

Protectli offers US-based customer support to assist you with any questions or issues. Our dedicated team is available to provide technical assistance and guidance.

For support, please visit the [Protectli Store](#) or refer to the contact information provided with your product documentation.