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Protectli V1210-2

Protectli Vault V1210-2 Port Micro Appliance/Mini PC User Manual

Model: V1210-2 | Brand: Protectli

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Protectli Vault V1210-2 Port Micro Appliance/Mini PC. Please read this manual thoroughly before using the device to ensure optimal performance and safety. The Protectli Vault V1210-2 is a compact, fanless mini PC designed for network security applications such as firewalls, routers, and other open-source software solutions.

2. SAFETY INFORMATION

- Ensure the device is placed on a stable, flat surface with adequate ventilation.
- Do not expose the device to water, moisture, or extreme temperatures.
- Use only the power adapter provided with the device.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Disconnect the power supply before cleaning or moving the device.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Protectli Vault V1210-2 Micro Appliance
- Power Adapter with regional plugs
- USB Type-C Console Cable



Image: Contents of the Protectli Vault V1210-2 package, including the device, power adapter with various regional plugs, and a USB Type-C console cable.

4. HARDWARE OVERVIEW

4.1 Front Panel



Image: Front view of the Protectli Vault V1210-2, showing the Reset button, Power button, two USB 3.0 ports, and an HDMI port.

- **Reset Button:** Used to restart the device.
- **Power Button:** Press to power on/off the device.
- **USB 3.0 Ports (x2):** For connecting USB devices such as keyboards, mice, or external storage.
- **HDMI Port:** For connecting a display monitor.

4.2 Rear Panel



Image: Rear view of the Protectli Vault V1210-2, showing the 12V DC power input, two 2.5G Ethernet ports, a USB Type-C console port, and LED indicators.

- **12V DC Power Input:** Connect the provided power adapter here.
- **2.5G Ethernet Ports (x2):** For network connections. These are Intel I226-V NICs.

- **USB Type-C Console Port:** For serial console access, typically used for initial setup or debugging.
- **LED Indicators:**
 - Power LED (Green): Indicates power status.
 - Storage Activity LED (Red): Indicates eMMC or NVMe storage activity.

4.3 Internal Components



Image: Internal view of the Protectli Vault V1210-2, showing the motherboard with integrated RAM, eMMC storage, and M.2 slot for optional NVMe SSD.

- **Intel N5105 Quad Core CPU:** Processor for the device.
- **4GB LPDDR4 RAM:** On-board system memory.
- **32GB eMMC Storage:** On-board flash storage for the operating system.
- **M.2 Slot:** For optional NVMe SSD expansion (not included in this configuration).

5. SETUP INSTRUCTIONS

Follow these steps for initial setup of your Protectli Vault V1210-2:

1. **Connect Peripherals:** Connect a monitor to the HDMI port, a keyboard and mouse to the USB 3.0 ports.
2. **Network Connection:** Connect your internet source (e.g., modem) to one of the 2.5G Ethernet ports. Connect your local network (e.g., switch or computer) to the other 2.5G Ethernet port.
3. **Power Connection:** Connect the provided 12V DC power adapter to the power input port on the rear panel, then plug the adapter into a power outlet.
4. **Power On:** Press the power button on the front panel. The device will power on, and the power LED will illuminate.
5. **Operating System Installation:** The Protectli Vault V1210-2 does not come with a pre-installed operating system. You will need to install your preferred open-source firewall or routing software (e.g., OPNsense, pfSense, VyOS) via a USB installation medium. Refer to the specific software's installation guide for detailed steps.
6. **Initial Configuration:** After OS installation, follow the software's instructions for initial network configuration. You may need to use the USB Type-C console port for advanced setup or debugging if direct display output is not sufficient.

6. OPERATING INSTRUCTIONS

Once your operating system is installed and configured, the Protectli Vault V1210-2 operates as a dedicated network appliance. Its fanless design ensures silent operation, making it suitable for various environments.

- **Normal Operation:** The device is designed for continuous operation. Ensure it has adequate airflow around its heatsink chassis.
- **Power Cycling:** To safely power off the device, use the shutdown procedure within your installed operating system. If the system is unresponsive, press and hold the power button for 5-10 seconds to force a shutdown.
- **BIOS Access:** To access the AMI BIOS settings, press the **DEL** key repeatedly during startup.

PROTECTLI VAULT

One Appliance. Endless Applications.



VPN Router



Firewall



Hypervisor



Backup WAN



Industrial
IoT



Home
Automation



Remote
Office



Managed IT
Providers

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols. Ensure the heatsink fins are free from dust buildup to maintain optimal cooling.
- **Software Updates:** Regularly update your installed operating system and software to ensure security and performance. Refer to your software's documentation for update procedures.
- **Firmware Updates:** Periodically check the Protectli website for BIOS/firmware updates for your V1210-2 model. Follow the provided instructions carefully when performing firmware updates.

8. TROUBLESHOOTING

Common Issues and Solutions:

- **Device does not power on:**
 - Ensure the power adapter is securely connected to both the device and a working power outlet.
 - Verify the power outlet is functional.
 - Try a different power adapter if available (ensure it matches voltage and amperage specifications).
- **No display output:**
 - Check the HDMI cable connection to both the device and the monitor.
 - Ensure the monitor is powered on and set to the correct input source.
 - Try connecting to the device via the USB Type-C console port for serial console access to diagnose display issues.
- **Network connectivity issues:**
 - Verify Ethernet cables are securely connected to the 2.5G NIC ports.
 - Check the link/activity LEDs on the Ethernet ports.
 - Ensure your operating system's network configuration is correct.
 - Restart your modem/router and the Protectli Vault.
- **Operating system not booting:**
 - Ensure the boot order in the BIOS is correctly configured for your installed OS or installation medium.
 - If installing from USB, ensure the USB drive is bootable and properly formatted.
 - Re-attempt OS installation if necessary.

For further assistance, please refer to the [Protectli Store](#) or contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model	Protectli Vault V1210-2
Processor	Intel N5105 Quad Core CPU (2.0 GHz, Turbo 2.9 GHz)
RAM	4GB LPDDR4 (on-board)

Feature	Specification
Storage	32GB eMMC (on-board)
Network Interfaces	2x Intel I226-V 2.5G NICs
USB Ports	4x USB 3.0 Type-A
Console Port	1x USB Type-C Console
Video Output	1x HDMI (Max Resolution: 3840 x 2160)
BIOS	AMI BIOS
Dimensions (LxWxH)	4.5 x 4.5 x 2 inches (115 x 115 x 50 mm)
Weight	1.81 pounds (0.82 kg)
Operating System	No OS pre-installed (Compatible with Linux-based firewall/router OS)



Image: Front view of the Protectli Vault V1210-2 with dimensions indicated: 4 1/2 inches (115mm) width and 2 inches (50mm) height.

10. WARRANTY INFORMATION

Protectli offers a 30-day money-back guarantee for the Vault V1210-2. For detailed warranty terms and conditions, please refer to the official Protectli website or contact their customer support.

Extended protection plans may be available for purchase separately:

- 2-Year Protection Plan
- 3-Year Protection Plan

11. SUPPORT

For technical assistance, troubleshooting, or general inquiries, please contact Protectli's US-based support team. They are available to help resolve any issues you may encounter.

- Visit the official [Protectli Store on Amazon](#) for product information and resources.
- Explore the Protectli Knowledge Base for extensive documentation and articles.



Install Any Software

All Protectli Vaults can run and have been tested with a variety of well known operating systems. Open source ready.



Maximum Security with coreboot

Get maximum security, transparency, and audibility with coreboot, an open source device firmware (optionally available).



4G LTE Failover available

Combine with a Protectli 4G LTE Modem so you never lose internet connectivity (optional).



US-Based Support

Speak directly to our US-based technicians. We pride ourselves on providing customer support that's responsive and helpful.

Image: Features of Protectli products, highlighting open-source readiness, coreboot support, 4G LTE failover, and US-based support.