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## Protectli Vault 6 Port



# Protectli Vault 6 Port Firewall/Mini PC

## User Manual

### INTRODUCTION

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This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Protectli Vault 6 Port Firewall/Mini PC. The Protectli Vault is a versatile, fanless, and silent mini PC designed for network security applications such as firewalls, routers, and hypervisors. It is built with premium components and supports a wide range of open-source software solutions.

This model features an Intel Quad Core i7-8550U processor, 32GB RAM, and a 480GB SSD, providing robust performance for demanding network environments.

### WHAT'S IN THE BOX

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Verify that all items listed below are included in your package:

- Protectli Vault 6 Port Firewall/Mini PC
- Power Supply
- VESA Mount Kit
- Serial Console Cable
- Quick Start Guide
- Wire harness and bracket for internal 2.5" SSD



Image: Included accessories for the Protectli Vault.

## PRODUCT OVERVIEW

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The Protectli Vault is designed for optimal performance and connectivity. Below are detailed views of the device's external and internal components.

### Front and Rear Panels



Image: Rear panel of the Protectli Vault, featuring six Intel Gigabit Ethernet ports (WAN, LAN, OPT1-OPT4), DC 12V power input, and status indicators.



Image: Front panel of the Protectli Vault, including the power button, four USB 3.0 ports, an HDMI port, and a COM port.

## Internal Components



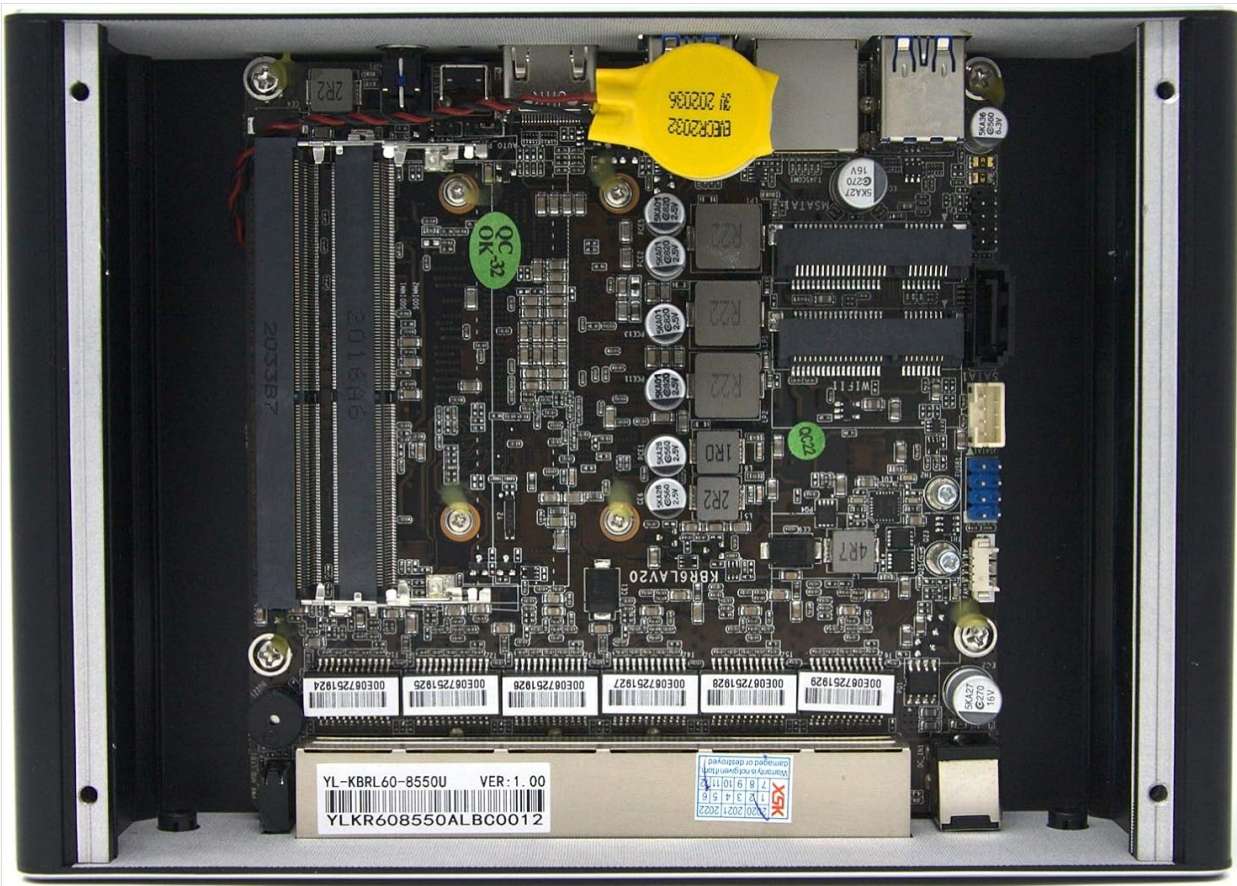


Image: Internal view of the Protectli Vault motherboard, showing the SODIMM RAM slots and mSATA SSD slot. The board is labeled YL-KBRL60-8550U Ver-1.00.

## SETUP

1. **Connect Power:** Connect the included power supply to the DC 12V input port on the rear panel of the Vault and then plug it into a power outlet.
2. **Network Connections:**
  - Connect your internet source (e.g., modem) to the **WAN** port.
  - Connect your local network devices (e.g., switch, computer) to the **LAN** port.
  - Additional network segments can be connected to the **OPT1** through **OPT4** ports as required by your network configuration.
3. **Initial Access:** For initial configuration, connect a monitor to the HDMI port and a keyboard/mouse to the USB 3.0 ports. Alternatively, use the Serial Console Cable with a terminal emulator for headless setup.
4. **Operating System Installation:** The Protectli Vault comes with no operating system pre-installed. It is compatible with various open-source software solutions such as pfSense, Untangle, and OPNsense. Refer to the specific software's installation guide for detailed steps.
5. **Mounting (Optional):** Use the VESA mount kit to securely attach the Vault to a compatible display or wall mount.

## OPERATING THE PROTECTLI VAULT

The Protectli Vault is designed for continuous, reliable operation as a network appliance. Its fanless design ensures silent operation and reduces dust accumulation.

- **Power On/Off:** Press the power button on the front panel to turn the device on or off. A short press typically initiates a graceful shutdown if the OS supports ACPI.
- **Software Configuration:** Once an operating system is installed, all network and security configurations are managed through the chosen software's interface (e.g., web GUI for pfSense/OPNsense).
- **Common Applications:** The Vault is ideal for:
  - Firewall and Router
  - VPN Server/Client
  - Hypervisor for virtual machines
  - Network Attached Storage (NAS)
  - Home Automation and Industrial IoT gateways

## PROTECTLI VAULT

One Appliance. Endless Applications.



VPN Router



Firewall



Hypervisor



Backup WAN



Industrial  
IoT



Home  
Automation



Remote  
Office



Managed IT  
Providers

Image: Diverse applications supported by the Protectli Vault.

## MAINTENANCE

The fanless design of the Protectli Vault minimizes maintenance requirements. However, regular checks are recommended to ensure optimal performance:

- **Dust Removal:** Periodically inspect the chassis for dust accumulation, especially around the heatsink fins. Use compressed air to gently clear any dust.
- **Software Updates:** Keep your chosen operating system and firewall software updated to the latest

versions to ensure security and stability.

- **Environmental Conditions:** Ensure the device is operated within recommended temperature and humidity ranges. Avoid placing it in direct sunlight or enclosed spaces without adequate airflow.
- **Cable Management:** Ensure all cables are securely connected and not under strain.

## TRoubleshooting

If you encounter issues with your Protectli Vault, consider the following common troubleshooting steps:

- **No Power:**
  - Verify the power adapter is securely connected to both the Vault and a working power outlet.
  - Ensure the power button is pressed firmly.
- **Operating System Installation Issues:**
  - Ensure your installation media (USB drive) is properly created and bootable.
  - Check BIOS settings to ensure the correct boot order and that the SSD is detected.
  - Some users have reported issues with specific installation methods; consult the Protectli Knowledge Base or community forums for your chosen OS.
- **Network Connectivity Problems:**
  - Check all Ethernet cable connections.
  - Verify network configuration within your installed operating system.
  - Ensure your modem/router is functioning correctly.
- **Performance Issues:**
  - Confirm that your software configuration is optimized for your hardware.
  - Monitor CPU and RAM usage through your OS to identify bottlenecks.

For more detailed troubleshooting guides and solutions, please visit the official Protectli Knowledge Base or contact customer support.

## Specifications

Feature	Detail
Model	Vault 6 Port (Mini)
Processor	Intel Quad Core Kaby Lake R i7-8550U (1.8GHz, 4GHz Turbo, 8MB Smart Cache, AES-NI)
RAM	32GB SODIMM
Storage	480GB SSD

Ethernet Ports	6x Intel Gigabit Ethernet NIC ports
USB Ports	4x USB 3.0
Video Output	1x HDMI
Serial Port	1x RJ-45 COM
Graphics Coprocessor	Intel UHD Graphics 620
Operating System	OS Agnostic (No OS pre-installed)
Dimensions (LxWxH)	7.25 x 5 x 2.5 inches
Item Weight	3 pounds
Color	Black

## WARRANTY AND SUPPORT

Protectli is committed to providing reliable hardware and excellent customer service.

- **Money-Back Guarantee:** Your Protectli Vault comes with a 30-day money-back guarantee.
- **US-Based Support:** Dedicated US-based customer service and technical support are available to assist you with any questions or issues.
- **Documentation:** Protectli maintains an extensive and updated [Knowledge Base](#) website with detailed articles for installation, configuration, and advanced topics.



### 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: Key features including US-based support and open-source compatibility.

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