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Protectli Vault 6 Port



Protectli Vault 6 Port Firewall/Mini PC

User Manual

INTRODUCTION

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

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

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

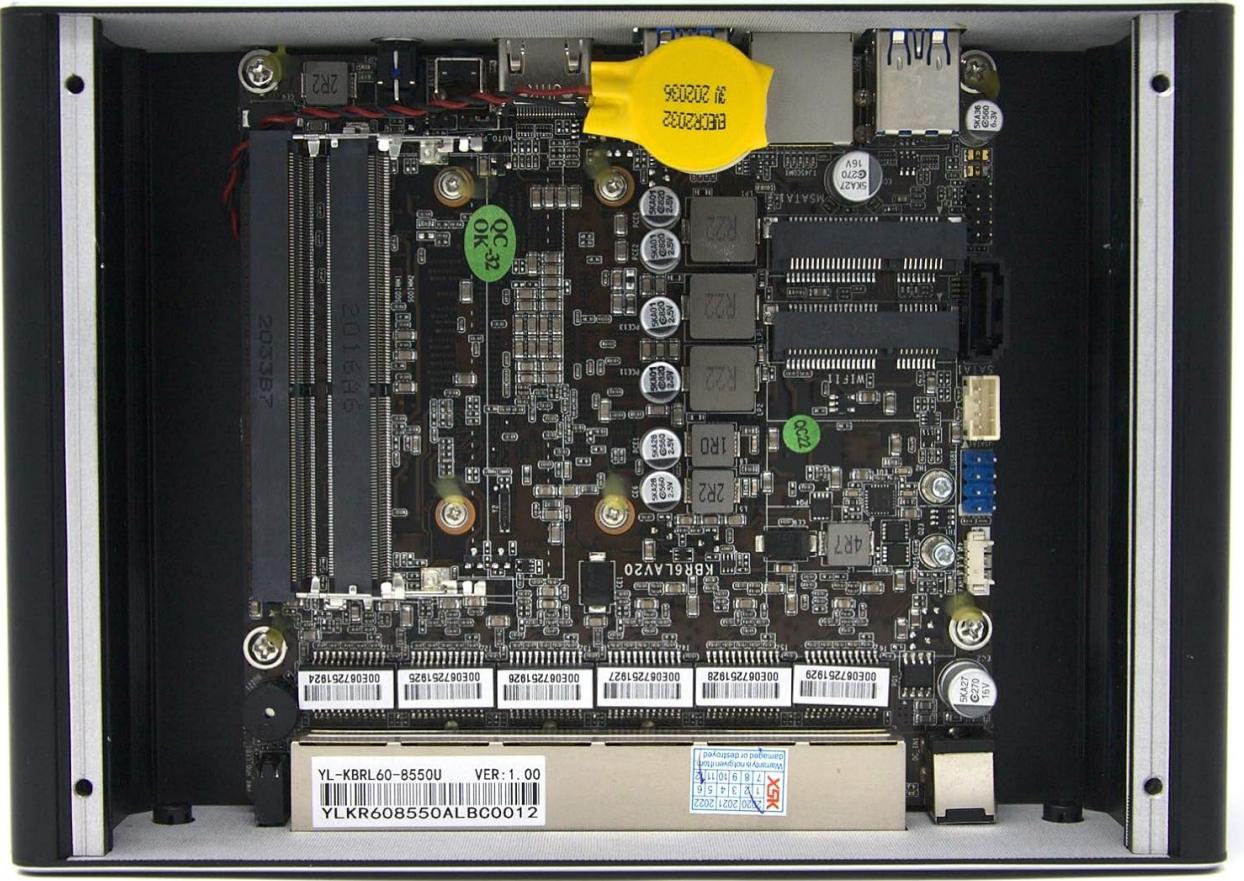


Image: Internal view of the Protectli Vault motherboard, showing the SODIMM RAM slots and mSATA SSD slot. The board is labeled YL-KBRL60-8550U Ver-1.00.

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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For more information, visit www.protectli.com