HP P04923-S01

HP ProLiant MicroServer Gen10 User Manual

Model: P04923-S01

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your HP ProLiant MicroServer Gen10. It covers installation, operation, maintenance, and troubleshooting procedures. Please read this manual thoroughly before operating the server and retain it for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the server:

- Always disconnect the power cord from the electrical outlet before cleaning or servicing.
- Do not expose the server to moisture or extreme temperatures.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Use only the power supply provided with the server.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- HP ProLiant MicroServer Gen10 Unit
- Power Cord
- User Guide (this document)
- ClearOS USB drive (for initial operating system installation)
- Documentation and Software CDs/DVDs (if applicable)

4. PRODUCT OVERVIEW

The HP ProLiant MicroServer Gen10 is a compact server designed for small and home offices. It offers a user-friendly form factor and provides essential server capabilities for various IT environments.

Figure 4.1: Front view of the HP ProLiant MicroServer Gen10, showing the drive bays and front panel.

Key Features:

- Compact and uniquely designed chassis.
- Easy to use and provides better and easy access to internal components.
- Supports multiple hard drives for storage solutions.
- Integrated graphics and multiple USB ports for connectivity.

5. SETUP

5.1 Unpacking and Placement

Carefully remove the server from its packaging. Place the server on a stable, flat surface with adequate ventilation. Ensure there is sufficient space around the server for airflow.

5.2 Hardware Installation

The MicroServer Gen10 supports up to four 3.5-inch hard drives and additional storage options. To install or replace drives:

1. Power off the server and disconnect the power cord.
2. Open the front panel or chassis cover to access the drive bays.
3. Insert the hard drives into the designated bays, ensuring they are securely seated and connected to the SATA data and power cables.
4. Close the chassis cover.

Memory (RAM) can also be upgraded. Refer to the technical specifications for supported memory types and capacities.

5.3 Initial Power On

Connect the power cord to the server and a grounded electrical outlet. Connect a monitor, keyboard, and mouse if performing a local installation. Press the power button on the front panel to turn on the server.

5.4 Operating System Installation

The server typically comes with a ClearOS USB drive for initial operating system installation. Alternatively, you can install other compatible operating systems such as FreeNAS, VMware ESXi, or various Linux distributions.

- **ClearOS:** Follow the on-screen prompts from the provided USB drive.
- **FreeNAS/BSD-based OS:** Some users report a BIOS bug. A common workaround during boot is to press '3' followed by 'ESC' at the OS prompt, then enter set hw.pci.realloc_bars=1 followed by boot. This setting can be made permanent in the OS GUI under System -> Tunables.
- **Other OS:** Prepare a bootable USB drive or optical media with your chosen operating system and configure the BIOS/UEFI boot order accordingly.

6. OPERATING THE SERVER

6.1 Basic Operation

Once the operating system is installed, the server functions like any standard computer. You can access it locally via a connected monitor, keyboard, and mouse, or remotely via network protocols (e.g., SSH, RDP, web interface) depending on your installed OS and configuration.

6.2 Remote Management

For remote management, configure network settings within your operating system. Many server operating systems offer web-based interfaces or command-line tools for administration from another computer on the network.

7. MAINTENANCE

7.1 Cleaning

Regularly clean the exterior of the server with a soft, dry cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners directly on the server.

7.2 Firmware Updates

Periodically check the HP support website for firmware updates for your MicroServer Gen10. Keeping firmware up-to-date can improve performance, stability, and security.

7.3 Drive Management

Monitor the health of your hard drives using your operating system's tools. Implement regular backups to protect your data. If using RAID, ensure the array status is healthy.

8. TROUBLESHOOTING

This section addresses common issues you might encounter:

- **Server does not power on:** Check power cord connections, power outlet, and ensure the power supply unit is

functioning.

- **Operating System installation fails:** Verify boot media integrity, check BIOS/UEFI settings for correct boot order, and ensure hardware compatibility with the chosen OS. For FreeNAS/BSD, consider the hw.pci.realloc_bars workaround mentioned in Section 5.4.
- **No display output:** Ensure monitor is connected and powered on. Test with a different monitor or cable if possible.
- **Overheating:** Ensure proper ventilation. Clean dust from fans and vents.
- **Hard drive not detected:** Check SATA data and power cable connections. Verify drive health.

For more complex issues, consult the HP support website or contact technical support.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	ProLiant MicroServer Gen10
Item Model Number	P04923-S01
Processor	AMD Opteron X3421 (2.1 GHz)
Number of Processors	4 (cores)
Memory Speed	2400 MHz
Memory Storage Capacity	8 GB (expandable)
Hard Drive Interface	Serial ATA (HDD)
Graphics Card Description	Integrated
USB 2.0 Ports	2
USB 3.0 Ports	4
Product Dimensions (LxWxH)	5.12 x 5.61 x 5.12 inches
Item Weight	11.02 pounds
First Available Date	May 31, 2018

10. WARRANTY AND SUPPORT

Your HP ProLiant MicroServer Gen10 is covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty documentation included with your product or visit the official HP support website. For technical assistance, driver downloads, and further support resources, please visit www.hp.com/support.