

## HP DL380 G9

# HP Proliant DL380 G9 Server User Manual

Model: DL380 G9

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient use of your HP Proliant DL380 G9 Server. Please read this manual thoroughly before operating the server and retain it for future reference. This server is a high-performance, enterprise-grade system designed for demanding computing environments.

## 2. PRODUCT OVERVIEW

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The HP Proliant DL380 G9 is a versatile 2U rack server, engineered for performance and expandability. This specific configuration includes two Intel Xeon E5-2670 V3 processors, providing a total of 24 cores at 2.3GHz, 256GB of DDR4 RAM, a P840 RAID controller, and 12x 3TB SAS hard drives, offering substantial storage capacity.



Figure 1: Front view of the HP ProLiant DL380 G9 Server, showing drive bays and front panel controls.

Key features include:

- Dual Intel Xeon E5-2670 V3 Processors (24 Cores total)
- 256GB DDR4 RAM (expandable)
- HP Smart Array P840 RAID Controller
- 12x 3TB SAS Hard Drives
- Rack-mountable 2U chassis

## 3. SETUP INSTRUCTIONS

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### 3.1 Unpacking and Inspection

1. Carefully remove the server from its packaging.
2. Inspect the server for any signs of physical damage that may have occurred during transit. If damage is found, contact your supplier immediately.
3. Verify that all components listed in the packing slip are present. The server typically includes heatsinks.

### 3.2 Physical Installation

The HP ProLiant DL380 G9 is designed for rack installation.

1. Ensure the rack is stable and capable of supporting the server's weight (approximately 48 pounds).
2. Install the server into a standard 19-inch server rack using appropriate rail kits (sold separately, if not included).
3. Connect power cables to the server's power supply units and to a grounded power source. It is recommended to use redundant power supplies for critical applications.
4. Connect network cables to the server's network interface ports.

5. Connect any necessary peripheral devices (monitor, keyboard, mouse) for initial setup.

### 3.3 Initial Power On and Operating System Installation

1. Press the power button on the front panel of the server.
2. Observe the boot process and system POST (Power-On Self-Test).
3. Access the server's BIOS/UEFI settings to configure boot order or other system parameters as needed.
4. Install your preferred operating system. The server supports various operating systems, including all Windows Server versions from 2000 onwards. Refer to your operating system's documentation for installation procedures.
5. Install necessary drivers and utilities for optimal performance.

## 4. OPERATING INSTRUCTIONS

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Once the operating system is installed and configured, the server is ready for operation. Manage the server through its installed operating system or via remote management tools like HP iLO (Integrated Lights-Out).

- **Power On/Off:** Use the power button for normal power cycles. For graceful shutdowns, always use the operating system's shutdown procedure.
- **Monitoring:** Regularly monitor server health, temperature, and component status using system management software.
- **Storage Management:** The server is equipped with a P840 RAID controller. Configure and manage your 12x 3TB SAS drives using the RAID controller utility to ensure data redundancy and performance.
- **Memory:** The 256GB DDR4 RAM provides ample memory for most applications. Ensure memory utilization is within acceptable limits for your workloads.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your server.

- **Cleaning:** Periodically clean the server's exterior and ensure ventilation openings are free from dust and obstructions. Use compressed air to gently clear dust from internal components, ensuring the server is powered off and unplugged first.
- **Firmware Updates:** Keep server firmware (BIOS, iLO, RAID controller, network adapters) updated to the latest versions provided by HP.
- **Software Updates:** Regularly update your operating system and application software with security patches and performance enhancements.
- **Component Replacement:**
  - **Hard Drives:** Hot-swappable SAS drives can be replaced without powering down the server, provided your RAID configuration supports it. Refer to the HP ProLiant documentation for specific procedures.
  - **RAM:** Memory modules can be upgraded or replaced. Ensure compatibility with existing modules and follow proper anti-static procedures.
  - **Power Supplies:** Redundant power supplies can often be hot-swapped.
- **Environmental Control:** Operate the server in a controlled environment with appropriate temperature and humidity levels to prevent overheating and component degradation.

## 6. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, refer to the official HP Proliant DL380 G9 documentation or contact technical support.

Problem	Possible Cause	Solution
Server does not power on.	No power, faulty power supply, loose connection.	Check power cables and power source. Verify power supply status indicators.
Operating system fails to boot.	Corrupt OS, incorrect boot order, drive failure.	Check BIOS/UEFI boot order. Inspect drive status via RAID controller. Attempt OS repair.
System performance is slow.	High CPU/RAM usage, disk I/O bottleneck, overheating.	Monitor resource usage. Check fan operation and server temperature. Optimize applications.
Hard drive failure indicated.	Physical drive failure.	Identify failed drive via RAID controller utility. Replace the faulty drive. The RAID array should rebuild automatically.

## 7. SPECIFICATIONS

Below are the technical specifications for the HP Proliant DL380 G9 Server (Model: DL380 G9).

Feature	Detail
Brand	HP
Series	Proliant DL380 G9
Processor	2x Intel Xeon E5-2670 V3 (2.3 GHz, 24 Cores total)
RAM	256 GB DDR4 SDRAM
Hard Drive	12x 3 TB SAS HDD (36 TB total)
RAID Controller	HP Smart Array P840
Operating System Support	All Windows Server Versions 2000 and later
Hardware Platform	PC
Item Weight	48 pounds
Package Dimensions	36 x 24 x 8 inches
Color	Black
Screen Size (for integrated display)	3.5 Inches

## 8. WARRANTY AND SUPPORT

This HP Proliant DL380 G9 Server is a renewed product and is backed by the [Amazon Renewed](#)

**Guarantee.** Renewed products are eligible for replacement or refund if you are not satisfied with your purchase.

For specific product support or inquiries regarding your purchase, please contact the seller, **StrongIT**, directly through your Amazon order details. They can provide assistance with product-specific issues and warranty claims.