

HEWLETT PACKARD P17201-B21

HPE ProLiant DL325 Gen10 1U Rack Server

Instruction Manual - Model: P17201-B21

1. PRODUCT OVERVIEW

The HPE ProLiant DL325 Gen10 1U Rack Server is a high-performance, single-socket server designed for virtualization and I/O intensive workloads. It features an AMD EPYC 7000 series processor and supports extensive memory and storage configurations.

Key features include:

- Single processor support with up to 512 GB RAM.
- Integrated 16 MB Graphic Card.
- Gigabit Ethernet connectivity.
- Support for 8 x SFF (Small Form Factor) bays.
- Equipped with a 12Gb/s SAS Controller.



Figure 1: Front view of the HPE ProLiant DL325 Gen10 1U Rack Server, showing the drive bays and status indicators.

2. SETUP AND INSTALLATION

2.1 Unpacking and Inspection

Carefully unpack the server and all components. Inspect for any visible damage that may have occurred during shipping. Retain all packaging materials for future use or return.

2.2 Rack Mounting

The HPE ProLiant DL325 Gen10 is a 1U rack server. Install the server into a standard 19-inch server rack using the appropriate rail kit (sold separately). Ensure proper ventilation space around the server for optimal cooling.

2.3 Connecting Power and Network

- Connect the power cords to the server's power supply units and to a grounded power outlet.
- Connect Ethernet cables to the server's network ports and to your network infrastructure.
- Optionally, connect a monitor, keyboard, and mouse to the appropriate ports for local access.



Figure 2: Rear view of the server, highlighting power supply units and network interfaces.

2.4 Storage and Memory Installation

The server supports various storage options including SFF drives, NVMe, and LFF drives. Memory installation involves populating the DIMM slots with HPE DDR4 SmartMemory modules. Refer to the detailed hardware guide for specific slot configurations and population rules.

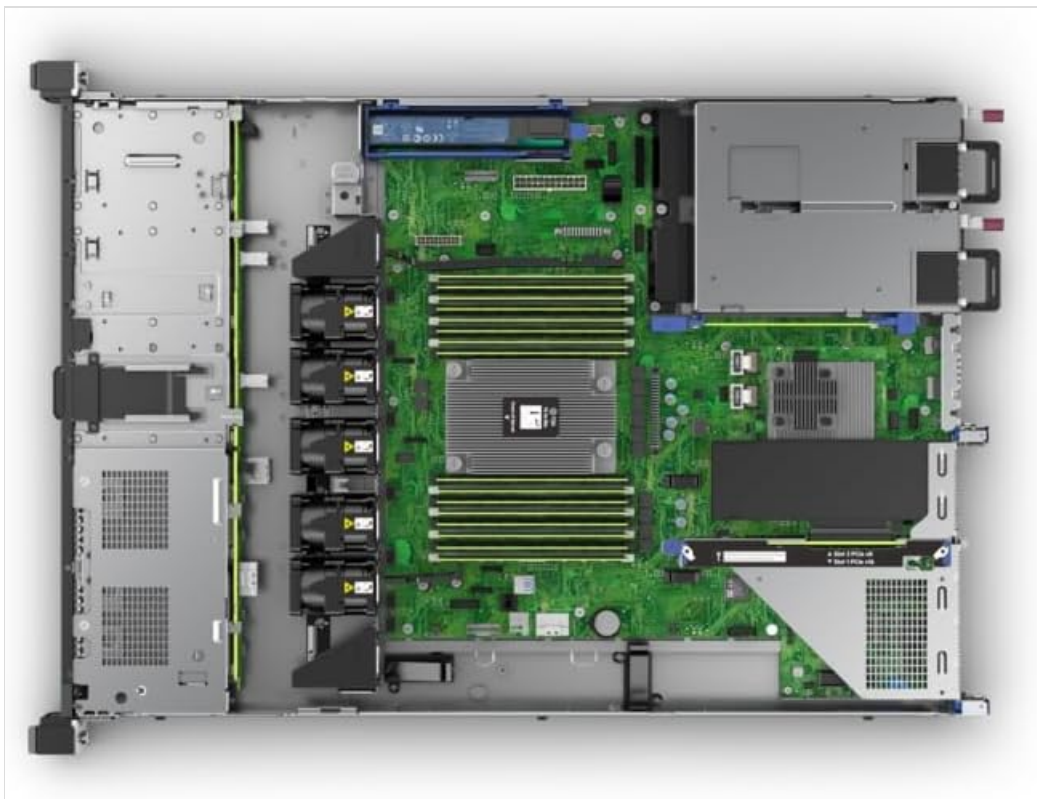


Figure 3: Internal layout of the server, illustrating the processor, memory slots, and expansion card areas.

3. OPERATING THE SERVER

3.1 Powering On/Off

- To power on, press the power button on the front panel.
- To power off, perform a graceful shutdown through the operating system. For a forced shutdown, press and hold the power button for several seconds.

3.2 Operating System Installation

The server supports various operating systems. You can install an OS via a bootable USB drive, network installation, or an optical drive (if an ODD option is installed). Access the server's BIOS/UEFI settings during boot to configure boot order and other system parameters.

3.3 Remote Management (HPE iLO)

The HPE ProLiant DL325 Gen10 server includes HPE iLO (Integrated Lights-Out) for remote server management. Connect the iLO dedicated network port to your management network. Access the iLO web interface via a web browser to monitor server health, perform remote power operations, and manage virtual media.

4. MAINTENANCE

4.1 Regular Checks

- Periodically check the server's physical connections, including power cables, network cables, and internal component connections.
- Monitor server health indicators, such as front panel LEDs and iLO status, for any warnings or errors.
- Ensure adequate airflow around and through the server to prevent overheating.

4.2 Firmware and Software Updates

Regularly update the server's firmware (BIOS, iLO, RAID controller, network adapters) and operating system software to ensure optimal performance, stability, and security. Visit the Hewlett Packard Enterprise support website for the latest updates.

4.3 Cleaning

Keep the server and its environment clean. Dust accumulation can impede airflow and lead to overheating. Use compressed air to gently clean dust from fans and vents. Ensure the server is powered off and disconnected from power before cleaning.

5. TROUBLESHOOTING

This section provides guidance for common issues. For more complex problems, consult the comprehensive HPE ProLiant DL325 Gen10 documentation or contact HPE support.

5.1 Power Issues

- **Server does not power on:** Verify power cords are securely connected to both the server and the power source. Check power supply unit LEDs. Ensure the power button is functioning.
- **Unexpected shutdowns:** Check for overheating (server fans running at high speed, unusual heat from exhaust). Review iLO event logs for critical errors or power supply failures.

5.2 Boot and Operating System Issues

- **Server does not boot:** Check the boot order in BIOS/UEFI settings. Verify that the boot drive is properly connected and detected.
- **Operating system errors:** Consult the operating system's documentation for specific error messages. Consider reinstalling the OS if software corruption is suspected.

5.3 Network Connectivity Problems

- **No network connection:** Verify Ethernet cables are securely connected to the server's network ports and the network switch/router. Check network adapter status LEDs. Confirm network configuration within the operating system.

5.4 Fan Noise

The HPE ProLiant DL325 Gen10 server, especially in a 1U form factor, can produce significant fan noise,

particularly during power-on or under heavy load. This is often a characteristic of high-performance servers designed for optimal cooling in dense environments and may not indicate a fault. Ensure the server is in a suitable environment where noise levels are acceptable or can be mitigated.

6. SPECIFICATIONS

Feature	Detail
Product Dimensions	24.21 x 17.11 x 1.69 inches
Item Weight	38.5 pounds
ASIN	B08389J2PY
Item Model Number	P17201-B21
Manufacturer	Hewlett Packard Enterprise
Date First Available	December 29, 2019

7. OFFICIAL PRODUCT VIDEO

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Video: HPE DL325 Gen10 Servers - Product Tour. This video provides a visual overview of the server's features, including its single-socket virtualization performance, versatile storage options (SFF, NVMe, LFF, ODD), advanced system memory (HPE DDR4 SmartMemory up to 2666MT/s), AMD EPYC 7000 series processor, and I/O intensive workload capabilities with PCIe 3.0 slots, AROC module, and FlexLOM options.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your server or visit the official Hewlett Packard Enterprise support website. You can find detailed support resources, drivers, and contact information there.

Hewlett Packard Enterprise Support: <https://www.hpe.com/us/en/support.html>