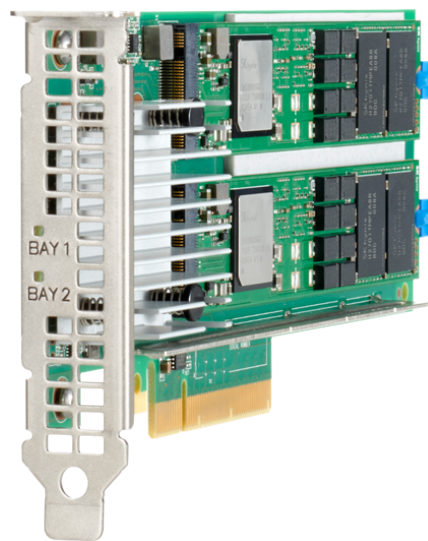


# HPE Boot Device Options

HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device (P12965-B21)



## What's new

- Supports HPE Synergy Gen10 Plus Compute platforms.
- Dedicated Hardware RAID 1 OS Boot Device.
- Includes two HPE enterprise-class 480 GB NVMe M.2 SSDs on a single HPE Synergy add-in card.
- Utilizes native in-box OS NVMe drivers.
- Hot plug universal installation (No longer requires a PCIe slot) .
- No cables or backplanes required.

## Overview

Do you need to simplify data segregation? HPE OS Boot Devices offer enterprise customers turnkey, resilient boot solutions that easily segregate the OS from the data storage plane in today's popular OS for virtualized environments—VMware®, Linux®, Windows®.

HPE NS204i-u is a universal installation hot plug OS boot device that includes two 480 GB M.2 NVMe SSDs. The universal installation removes the need for cables and backplanes. This device no longer takes up a PCIe slot, and auto-creates RAID 1 volume.

HPE NS204i-p and NS204i-d NVMe OS Boot Devices are self-contained boot solutions in simple, pre-configured PCIe cards and HPE Synergy Option requires no GUI or user setup. These plug-and-play OS boot devices include two 480 GB M.2 SSDs, enabling customers to mirror OS through hardware RAID 1. Based on NVMe technology, HPE NS204i-p and NS204i-d NVMe OS Boot Devices deliver up to 4x faster read capability than legacy SATA boot solutions.[1]

## Features

### **Simple and Secure OS Mirroring through Dedicated Hardware RAID 1**

HPE NS204i-d NVMe OS Boot Device is a complete, turnkey optimized OS boot device that is easy to deploy—no need to configure or format, simply insert and it works, no GUI or user setup required.

Pre-configured RAID 1 OS boot utilizes a single HPE Synergy designed card that connect to PCIe connection under drive cages to safely isolate OS from user data on today's popular virtualized environments.

Uses native in-box driver support for VMware, Linux, and Windows OS.

Supports secure firmware boot for simple and secure setup of HPE Synergy 480 Gen10 Plus Compute Modules.

Enables all drive bays are used for data, greatly reducing server complexity, while providing an economical way for booting in virtualized environments.

### **State-of-the-Art, Hardware Accelerated RAID 1 NVMe OS Boot Device**

HPE NS204i-d NVMe OS Boot Device combines the latest generation NVMe technology and hardware RAID 1 redundancy in support of OS applications.

Self-contained HPE Synergy Gen3 boot device is integrated with two HPE enterprise-class 480GB NVMe M.2 SSDs allowing you to customize configuration.

HPE enterprise-class NVMe M.2 SSDs delivers enhanced data protection with power loss protection and error correction.

Based on Synergy design with NVMe technology, the HPE NS204i-d NVMe OS Boot Device delivers up to 4x times faster read capability than legacy SATA-based boot solutions. [2]

### **Increased Storage Density and Dedicated Hardware RAID 1 Resiliency for OS Boot**

HPE NS204i-d NVMe OS Boot Device and HPE USB Flash drive with dual 32 GB microSD cards on-board RAID 1 free up internal server storage bays enabling greater platform storage density.

HPE OS Boot Devices provides separate, redundant disk solutions for the OS that enables a more robust, optimized compute platform.

Dedicated hardware RAID 1 OS boot mirroring helps eliminate downtime due to a failed OS drive—even if one drive fails the business continues running.

HPE OS Boot Devices are certified for VMware and Microsoft Azure Stack HCI for increased flexibility.

### **Full Hardware RAID 1 Boot Solution for VMware Environments**

HPE USB Flash drive with dual 32 GB microSD cards and on-board RAID 1 boot devices deliver a redundant OS boot without consuming server storage drive bays.

Engineered with enterprise-class high endurance NAND for non-stop data center environments.

Integrated on-board RAID 1 for customers requiring dual boot solution.



**Technical specifications****HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device**

<b>Product Number</b>	P12965-B21
<b>Platform supported</b>	HPE ProLiant DL, ML and HPE Apollo servers. See QuickSpecs for a detailed listing of supported platforms.
<b>Cache</b>	N/A
<b>RAID levels</b>	Dedicated hardware RAID 1
<b>Form factor</b>	PCIe half-height, half-length (HHHL) card
<b>Usable capacity</b>	480GB
<b>Compliance</b>	RoHS, Lot 9
<b>PCIe support</b>	Gen3
<b>Battery</b>	N/A
<b>Maximum drives supported</b>	2, included in kit
<b>Warranty</b>	3 Years Parts

[1], [2] NVMe vs. SATA: It's time for NAND Flash in the fast lane, ATP electronics, October 2018  
[atpinc.com/blog/nvme-vs-sata-ssd-pcie-interface](http://atpinc.com/blog/nvme-vs-sata-ssd-pcie-interface)



For additional technical information, available models and options, please reference the QuickSpecs

**HPE Services**

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

**Consulting services**

Experts can help you map out your path to hybrid cloud and optimize your operations.

**Managed services**

HPE runs your IT operations, giving you unified control, so can focus on innovation.

**Operational services**

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

**Lifecycle Services**

Address your specific IT deployment project needs with tailored project management and deployment services.

**HPE Education Services**

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.


**HPE GreenLake**


HPE GreenLake edge-to-cloud platform is HPE’s market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.




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Explore **HPE GreenLake**

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 **Chat now (sales)**

 **Call now**

-  **Buy now**
-  **Share now**
-  **Get updates**



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Image may differ from the actual product PSN1013054226UKEN, August, 2024.