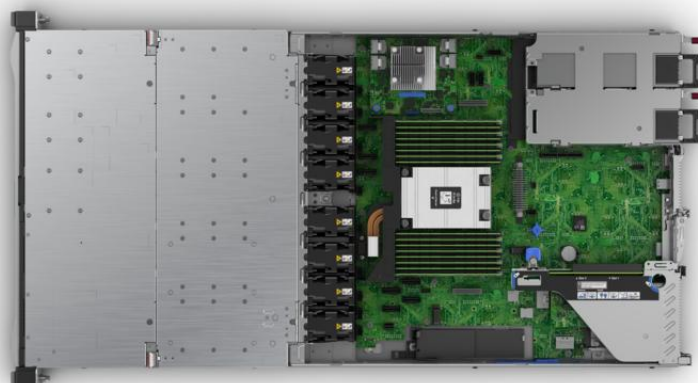**Hewlett Packard Enterprise**

HPE PROLIANT DL325 GEN10 PLUS 34TB 100GB ALL FLASH NODE FOR QUMULO (R3B88A)

Scale-Out Enterprise File and Object Storage

WHAT'S NEW

- New HPE ProLiant DL325 Gen10 Plus 34 TB 100Gb All-NVMe Flash Node for Qumulo, a perfect solution for demanding high

OVERVIEW

Data is growing at an unprecedented pace in the enterprise. IDC expects that we will see nearly 79 zettabytes of data by 2025 coming from machines, sensors and cameras [1]. This growth is offering businesses everywhere new opportunities to innovate.

throughput and IOPS workloads.

- New HPE ProLiant DL325 Gen10 Plus 145 TB 100Gb All-NVMe Flash Node for Qumulo, with similar expectations for larger workloads and better cost per TB.
- "Always On" encryption providing security on All-NVMe Flash solutions, simplest setup in the industry and included in the subscription.
- Use the cloud when you need it with Qumulo SHIFT. You can copy your data to native Amazon S3 and leverage the power of the Public cloud. This feature is included in the subscription.

Many technological advancements in IoT, computing and machine learning have made this far easier than before. But the challenge we keep hearing from customers is that deriving those insights from their data is held back because of their infrastructure. With much of the new data being unstructured and collected at a scale and speed never seen before, the existing infrastructure just cannot cope up with it. As a result, IT needs a new infrastructure solution to support these data-driven initiatives.

HPE Solutions for Qumulo effectively addresses your growing unstructured data needs – scale and manage billions of files with instant control at lower cost and high performance, on-prem, off-prem, or spanning both – now and into the future.

FEATURES

High-performance, Enterprise-proven Scale-out NAS

Scale to billions of files with Qumulo's file data platform that handles small files as efficiently as large ones. There is no practical limit to scale in capacity, performance, file count or node count. User files can occupy 100% of provisioned capacity without performance or management issues.

Sophisticated data protection including highly efficient erasure coding, replication, snapshots and software encryption, enable the fastest re-protect times in the industry. Its auditing capability is easy to set-up. The software based encryption is always on to ensure your data is protected.

Automatically manages NTFS and POSIX permissions, preserving ACL inheritance, for true collaboration. Qumulo's custom SMB, NFS, FTP and RESTful API are highly efficient. Its enterprise NAS protocol enables Linux, Mac & Windows users to share a common data set across both NFS and SMB.

Your Data Where you Want it, Scaling On-premises and in Hybrid Cloud Environments

Store your data anywhere and get multiple GB/s of performance for your workloads both on- and off- premises. You get scalable performance regardless of number of files or file sizes.

Leverage continuous replication to make cloud a part of your business continuity strategy. Cloud continuity replication policies move the data where it's needed, when it's needed, operating across storage clusters, whether on-premises or in the cloud. It automatically keeps data consistent.

Use the cloud when you need it. Access compute capability not available in your data center. With Qumulo SHIFT you can copy data to native Amazon S3 to leverage applications, as well as AI and ML capabilities, hosted in the cloud. Amazon S3 enables easy collaboration with users around the world.

Use the exact same software for on-premises scale-out NAS and in hybrid cloud environments. It runs directly on AWS and Google Cloud infrastructure. Simple subscription pricing covers all features, updates, performance enhancements and software support and the licenses are completely transferable.

Eliminate Data Blindness with Real-time Visibility and Control of Your Storage Infrastructure

Real-time analytics help save time and money while increasing performance, allowing admins to pinpoint problems and effectively control how storage is used while providing visibility into storage capacity usage patterns by IP address or directory path.

Instantly see usage, activity and throughput at any level of the unified directory structure, no matter how many files are in the file system, on a cloud-based web GUI. Identify problem areas, hot spots and optimize workload distribution across the file system to ensure resources are fully utilized.

Leverage real-time information via analytics to set quotas in real-time. Directory-based capacity quotas give administrators instant control over storage allocation. Capacity quotas can be applied to any directory, even nested ones. Moving a directory with a quota is easy.

Automate everything, eliminating redundant tasks! The RESTful API enables you to programmatically configure infrastructure, eliminate administrative tasks and automate IT management. You can import data into monitoring applications already in place.

Ultra-dense and Secure Storage Server

HPE Solutions for Qumulo are built using HPE Apollo and HPE ProLiant servers. These build on years of proven leadership with an architecture optimized for Software-Defined Storage. Its unique design allows customers to save valuable data center space through a standard rack depth chassis.

HPE ProLiant DL325 Gen10 Plus servers are all-NVMe nodes, built on the 2nd generation AMD EPYC 7402 series processor family with 24 cores, and HPE Smart Memory up to 3200 MT/s DDR4 memory.

HPE Apollo 4200 servers are an SSD-first hybrid architecture that optimizes cost and performance. You can simultaneously get the speed benefits of SSD and the economic advantages of HDD.

HPE's Active Health System is an industry-first technology providing continuous, proactive health monitoring of over 1,600 system parameters and 100% of configuration changes. Cloud-based monitoring proactively detects potential problems including historical trend data about system usage.

HPE iLO5 Silicon Root of Trust and the built-in 256-bit AES encryption protects your systems and data from threats and malicious activities. No separate licenses or anything to manage. And switched ON by default.

Technical specifications

HPE ProLiant DL325 Gen10 Plus 34TB 100Gb All Flash Node for Qumulo

Product Number (SKU)	R3B88A
Capacity	34 TB All Flash NMVe raw capacity
Host interface	100GbE QSFP28
Protocol supported	NFS, SMB, FTP and REST
Replication support	Continuous asynchronous replication across Qumulo storage clusters.
Storage expansion options	Storage is expanded by adding Qumulo nodes to the cluster.
Compatible operating systems	Windows®, UNIX®, Linux®
Management features	At-a-glance visibility to storage capacity usage patterns by IP address or by directory path. Up-to-the-minute analytics pinpoint problems and effectively control how storage is used. Directory-based capacity quotas. HPE Integrated Lights Out and Active Health System.
Clustering support	Minimum of four nodes required for a Qumulo cluster.
HD type	9x 3.84 TB NVMe RI SC U.3
Snapshot support	Yes
Form factor (fully configured)	1U rack mount
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

HPE POINTNEXT

Access expertise at every step of your IT journey with HPE Pointnext Services. Advisory Services focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our Professional and Operational Services help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.

- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more

- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them here.

[1] idc.com/getdoc.jsp?containerId=prUS45213219

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