

# Qumulo Solutions with HPE

  
Hewlett Packard  
Enterprise

DATA SHEET

Qumulo Solutions with HPE

## Scale Anywhere™ with Powerful Platforms

Together, HPE and Qumulo simplify your unstructured data anywhere and with the choice to consume as-a-service via HPE GreenLake. Reliably store and manage billions of files that can be securely accessed via rich file protocols and an S3 API. Gain instant control of your data at lower cost and higher performance, at the edge, in the datacenter, and in the cloud.

With purpose-built all-NVMe flash and hybrid-NVMe flash systems forged from industry leading HPE Alletra 4000 and HPE Apollo 4000 data storage servers, you can achieve the ideal mix of price, performance, and capacity to address your unstructured data needs now and in the future. HPE and Qumulo empower you to store, manage, and curate your data, at scale, to match the needs of your business.

### Scale Anywhere™



#### Your Data Anywhere

At the edge in the data center, and in the cloud - get up to 455GB/s of performance for your unstructured data workloads. Get scalable performance regardless of the number of files, buckets, objects, or total capacity.



#### Efficiency

With advanced erasure coding, store billions of files with a system that handles small files as efficiently as large ones. User files can occupy 100% of provisioned capacity without performance or management issues.



#### Simply Secure

Data protection techniques include erasure coding for fast re-protect, replication, snapshots, and FIPS 140-2 certified. Built-in security extends 'silicon to software, factory to cloud', with HPE Integrated Lights Out 6.

### Unparalleled Support



#### Zero-Latency Support

Direct access to Qumulo engineers and system admins via Slack, phone, or email - with response times in minutes.



#### Cloud Based Monitoring

Qumulo delivers insight into historical trends about how your system is used and proactively detects potential problems, such as disk failures.

### Access Any Way



#### Protocol Completeness

Native SMB, NFS, S3 API, FTP, HTTP, and FTPS are optimized for enterprise-grade needs. Users can access the same data from any protocol. NTFS and POSIX permissions are automatically managed, effectively preserving ACL inheritance.



#### Cloud Native

Qumulo runs natively on AWS, Google Cloud Platform, and Microsoft Azure. Leverage applications in the cloud using Qumulo to copy data to/from Amazon S3. Use storage for Kubernetes, using the Qumulo CSI driver to provision persistent storage for K8s clusters.



#### HPE GreenLake

Qumulo is offered, as-a-service, via HPE GreenLake. The service provides a pay-as-you-go platform for file data for a wide range of workloads. Users gain fast access to their data and key applications in a cost-effective, consumption-based model.



#### Real-Time Analytics

Qumulo's real-time analytics dashboard, combined with the Operation Management option for the HPE Alletra 4110 data storage server, provide an intuitive cloud management experience, with access control, usage monitoring, system health status, and firmware management.

## Qumulo on HPE Appliances

| Active                 | All-NVMe EDSFF Flash                    |   |   |
|------------------------|---|---|---|
| Server Model           | HPE Alletra 4110                        |   |   |
| Platform Configuration | HPE 38T                                 | HPE 153T                                | HPE 307T                                |
| Form Factor            | 1U                                      |   |   |
| Raw Storage Capacity   | 38 TB                                   | 153 TB                                  | 307 TB                                  |
| SSD/NVMe               | 10 x 3.84TB E3.S NVMe (TLC & QLC)       | 20 x 7.68TB E3.S NVMe (TLC & QLC)       | 20 x 15.36TB E3.S NVMe (TLC & QLC)      |
| Networking             | 4 x 100 GbE                             | 4 x 100 GbE                             | 4 x 100 GbE                             |
| CPU                    | 2x Intel Xeon 4410Y/4510 or 4416+/6526Y | 2x Intel Xeon 4410Y/4510 or 4416+/6526Y | 2x Intel Xeon 4410Y/4510 or 4416+/6526Y |
| Memory                 | 128 GB                                  | 128 GB                                  | 128 GB                                  |

| Active                       | NVMe-Hybrid                           |         |  |          |                     |           |
|------------------------------|---------------------------------------|---------|--|----------|---------------------|-----------|
| Server model                 | HPE Apollo 4200 Gen10 Plus            |         |  |          | HPE Alletra 4140    |           |
| Platform                     | HPE 36T                               | HPE 90T | HPE 240T                                 | HPE 480T | HPE 1200T           | HPE 1600T |
| Form Factor                  | 2U                                    |         |  |          | 4U                  | 4U ext    |
| Raw Storage Capacity         | 36TB                                  | 90TB    | 240TB                                    | 480TB    | 1.2PB               | 1.6PB     |
| Logical Flash Cache Capacity | 2.4TB                                 |         | 6.4TB                                    | 12.8TB   | 61.44TB             |           |
| HDD                          | 9x4TB                                 | 9x10TB  | 24x10TB                                  | 24x20TB  | 60 x 20TB           | 80 x 20TB |
| Networking                   | 2 x 25GbE or 2 x 100GbE               |         | 2x100GbE                                 |          | 1 x 25GbE           |           |
| CPU                          | INTEL ICELAKE 4310<br>12 cores/2.1GHz |         | 2x INTEL ICELAKE 4310<br>12 cores/2.1GHz |          | 2x Intel Xeon 4410Y |           |
| Memory                       | 64GB                                  |         | 128GB                                    |          | 256GB               |           |

| General Purpose              | NVMe-Hybrid                           |         |  |          |                     |           |
|------------------------------|---------------------------------------|---------|--|----------|---------------------|-----------|
| Server model                 | HPE Apollo 4200 Gen10 Plus            |         |  |          | HPE Alletra 4140    |           |
| Platform                     | HPE 36T                               | HPE 90T | HPE 240T                                 | HPE 480T | HPE 1200T           | HPE 1600T |
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| Networking                   | 2 x 25GbE or 2 x 100GbE               |         | 2x25GbE                                  |          | 1 x 25GbE           |           |
| CPU                          | INTEL ICELAKE 4310<br>12 cores/2.1GHz |         | 2x INTEL ICELAKE 4310<br>12 cores/2.1GHz |          | 2x Intel Xeon 4410Y |           |
| Memory                       | 64GB                                  |         | 128GB                                    |          | 256GB               |           |

### About Qumulo

Qumulo is the radically simple way to manage petabyte-scale data anywhere – edge, core or cloud – on the platform of your choice. In a world with trillions of files and objects comprising 100+ Zettabytes worldwide, companies need a solution that combines the ability to run anywhere with simplicity. This is precisely what Qumulo was founded to accomplish. [www.qumulo.com](http://www.qumulo.com)