



# HPE NIMBLE STORAGE AF20Q ALL FLASH DUAL CONTROLLER 10GBASE-T 2-PORT CONFIGURE-TO- ORDER BASE ARRAY (Q8H73A)

## Nimble Storage Arrays

### WHAT'S NEW

- Performance is up to 65% faster and twice the scalability of previous HPE Nimble Storage All Flash Arrays. [2]
- Cost-effective entry-level all-flash array.
- HPE Store More Guarantee delivers more effective capacity per terabyte of raw flash than competitive all-flash arrays. [3]
- Future-proofed for NVMe and SCM based on our timeless storage.

### OVERVIEW

Are you struggling to find the perfect combination of flash storage and predictive analytics? HPE Nimble Storage All Flash Arrays combine a flash-efficient architecture with HPE InfoSight predictive analytics to achieve fast, reliable access to data and 99.9999% guaranteed availability. [1] Radically simple to deploy and use, the arrays are cloud-ready, providing data mobility to the cloud through HPE Cloud Volumes. Your storage investment made today can support you well into the future, thanks to our technology and business-model innovations. HPE Nimble Storage All Flash Arrays include all-inclusive licensing, easy upgrades, and flexible payment options – while also being future-proofed for new technologies, such as NVMe and Storage Class Memory (SCM).

### FEATURES

#### Predictive Analytics

HPE Nimble Storage All Flash Arrays automatically predict and resolve 86% of problems before you even know there is an issue. [4]

Transforms the support experience through cloud-based predictive analytics and Level 3-only support.

Holistic view across the infrastructure stack to resolve problems beyond just storage.

Simplifies planning with prescriptive forecasts into capacity, performance, and bandwidth requirements.

Makes infrastructure smarter and more reliable by learning from the installed base.

### **Radical Simplicity**

HPE Nimble Storage All Flash Arrays are simple to deploy use, and manage.

This product is cloud-ready and deploys flash on-premises or in the cloud with common data services and mobility between all-flash, adaptive flash, and HPE Cloud Volumes.

HPE Nimble Storage All Flash Arrays are future-proofed for NVMe and SCM. The offering comes with a satisfaction guarantee, all-inclusive software licensing, flat support pricing, replacing all the hardware for upgrades, and an option to receive a free faster controller upgrade after three years.

Radically easy to integrate with many ecosystems and has a deep integration with VMware®, Microsoft® applications, Oracle, Veeam, and others.

### **Fast and reliable**

HPE Nimble Storage All Flash Arrays are scale-to-fit. They scale up performance and capacity independently and non-disruptively; and scale out to four arrays managed as one for increased flexibility.

Up to 5X or more data reduction from variable block inline deduplication and compression. [5]

Backup and disaster recovery (DR) from all-flash to adaptive flash arrays at one-third the cost.

Data reduction, snapshots, and Triple+ Parity RAID with no performance impact.

Sub-millisecond response time for performance-sensitive enterprise workloads.

### **Absolute Resiliency**

HPE Nimble Storage All Flash Arrays has 99.9999% guaranteed availability.

Triple+ Parity RAID can handle three simultaneous drive failures and provides additional protection through intra-drive parity.

App-granular, FIPS-certified encryption provides data-at-rest and over-the-wire protection, data shredding is built-in.

Native application-consistent snapshots and replication, as well as integration with leading backup software.



## Technical specifications

# HPE Nimble Storage AF20Q All Flash Dual Controller 10GBASE-T 2-port Configure-to-order Base Array

|                                     |   |
|-------------------------------------|---|
| <b>Product Number</b>               | Q8H73A  |
| <b>Capacity</b>                     | Up to 46 TB raw, 128 TB effective capacity  |
| <b>Drive description</b>            | SATA SSDs: 240 GB, 480 GB, 960 GB, 1.92 TB, 3.84 TB   |
| <b>Enclosures</b>                   | All-flash chassis with up to one all-flash expansion shelf  |
| <b>Maximum drives per enclosure</b> | 24  |
| <b>Host interface</b>               | Each array controller has 2 x 10GbE ports built in. Optional ports are 1GbaseT, 10GbaseT, or 10GbE SFP+, or 8/16G Fibre Channel.  |
| <b>Storage controller</b>           | Redundant storage controllers   |
| <b>Availability features</b>        | Triple+ Parity RAID for data protection (triple drive and intra-drive parity), 99.9999% guaranteed availability, redundant hardware/software design, no single points of failure.   |
| <b>Compatible operating systems</b> | <p>Microsoft Windows® Server®<br/>           VMware ESXi™<br/>           SUSE® Linux® Enterprise Server (SLES)<br/>           Red Hat® Enterprise Linux (RHEL)<br/>           Ubuntu Server Edition LTS<br/>           Oracle Linux<br/>           Oracle Solaris<br/>           Citrix® XenServer<br/>           IBM AIX, HP-UX</p> <p>For the latest information on supported operating systems refer to Single Point of Connectivity Knowledge (SPOCK) for HPE Storage products: <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></p> |
| <b>Product Dimensions (metric)</b>  | 17.58 x 43.9 x 89 cm  |
| <b>Weight</b>                       | 52 kg (43 kg all-flash shelf)   |
| <b>Warranty</b>                     | <p>HPE Nimble Storage All Flash Arrays come with the following warranties<br/>           1-year, parts-only warranty for hardware components and 90-day, software updates for defects.<br/>           Additionally, Hewlett Packard Enterprise provides phone support for replacing a defective part. Additional support coverage is required for HPE Nimble Storage All Flash Arrays. Note: For hardware warranty claims, defective part must be received before replacement parts are shipped.</p>  |



For additional technical information, available models and options, please reference the [QuickSpecs](#)

## HPE POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

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.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## 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] HPE Get Six Nines Guarantee: [hpe.com/h20195/v2/Getdocument.aspx?docname=a00026086enw](https://hpe.com/h20195/v2/Getdocument.aspx?docname=a00026086enw)

[2] Based on HPE Engineering performance tests and measurements versus the previous generation of HPE Nimble Storage All Flash arrays.

[3] HPE Store More Guarantee: <http://h20195.www2.hpe.com/V2/GetDocument.aspx?docname=a00039975enw>

[4] Based on actual customer data collected by the HPE Nimble Storage support organization. See [hpe.com/h20195/v2/Getdocument.aspx?docname=a00018503ENW](https://hpe.com/h20195/v2/Getdocument.aspx?docname=a00018503ENW)

[5] Based on customer data as analyzed by HPE InfoSight and also from data reduction evaluation by HPE Engineering.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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