



HPE Small Business Solutions for Scalable Storage

Simple, secure, and affordable server and storage solutions designed just for SMB use cases

Contents

| | |
|---|---|
| HPE point of view | 2 |
| Simple, secure, and affordable storage is the lifeblood of digital transformation | 2 |
| HPE Small Business Solutions for Scalable Storage | 2 |
| Building a solution using iQuote | 2 |
| Build your solution | 2 |
| Step 1: Size your solution | 2 |
| Step 2: Choose the right configuration and recommended options | 3 |
| Step 3: Don't forget services | 4 |
| Step 4: Choose your flexible monthly payment option | 4 |
| Simple, secure, affordable | 5 |
| Resources | 5 |

HPE point of view

Simple, secure, and affordable storage is the lifeblood of digital transformation

In the digital age, data is the most valuable asset of any company. But small and midsize businesses (SMBs) face unique challenges when it comes to storing and serving massive amounts of data. For example, complying with data regulations and speeding the performance of a new generation of data-driven applications requires ample, expandable storage that’s affordable to acquire and simple to own. HPE Small Business Solutions for Scalable Storage are simple to deploy, manage, and support.

HPE Small Business Solutions for Scalable Storage

HPE Small Business Solutions for Scalable Storage are based on HPE ProLiant servers, powered by Intel® Xeon® processors. They are tested, optimized, and validated with Microsoft® Windows Server®. They are designed to be a one-stop shop for packaged solutions including hardware, software, services, and top-selling HPE ProLiant options, ready-to-go for foundational SMB use cases.

If you’re facing end of support for Microsoft Windows Server 2008, now is the perfect time to upgrade to HPE Small Business Solutions with Microsoft Windows Server 2016 or 2019. Modernizing a legacy Windows Server 2008 environment on HPE ProLiant Gen10 servers with a current version of Windows Server gives you added security against cybercrime, the efficiency of cost-saving technologies, and the benefits of a cloud-ready platform.

With HPE Small Business Solutions for Scalable Storage, you can easily adopt a storage solution that’s simple, affordable, and secure.

Building a solution using iQuote

iQuote is an online sales enablement program that simplifies the process of configuring, quoting, and purchasing HPE products and solutions from a single location. You can access the universal version via iquote.hpe.com or contact your preferred HPE authorized Partner or distributor for live pricing.

HPE Small Business Solutions will be available in iQuote in Q3 2019. A set of custom filters enables you to quickly find the HPE SMB Solution Offer that best meets your needs. HPE Small Business Solutions can be customized by adding recommended options and HPE value-added services for an optimal experience.

HPE Small Business Solutions are part of the HPE SMB Offers portfolio, which come in three key groupings to maximize choice:

- **Entry offer** = A simple entry-level server solution with the lowest cost
- **Performance offer** = More power and features with top-selling configurations at a competitive price
- **Solution offer** = Powerful and integrated solution driven by workload demands

HPE Small Business Solution offers are regionally released as “Smart Buy Express Offers” in the U.S. and Canada, “Top Value Offers” in Europe, and “Intelligent Buy Offers” in Asia Pacific and Japan.

HPE Small Business Solution Elements are regionally released as “Smart Buy Express Offer Elements” in the U.S. and Canada, “Top Value Offer Elements” in Europe, and “Intelligent Buy Offer Elements” in Asia Pacific and Japan.

Build your solution

Step 1: Size your solution

HPE Small Business Solutions for Scalable Storage is sized by the number of employees. The following table shows the available configurations, with guidance on which base configuration to select based on the number of users you need to support.

Table 1. HPE Small Business Solutions for Scalable Storage portfolio sizing matrix

| Server used for base configuration | Users supported |
|--|-----------------|
| HPE ProLiant DL360 Gen10 with HPE MSA 1050 (7.2 TB raw capacity) | 50–150 |
| HPE ProLiant DL325 Gen10 with HPE MSA 2052 (10.8 TB raw capacity + 1.6 TB cache) | 150–250 |



Step 2: Choose the right configuration and recommended options

Select the solution offer and elements for your business outcome and sizing needs

HPE MSA 1050 and MSA 2052 storage arrays make features available in high-end arrays, like HPE 3PAR, available to the entry storage array world. Both the MSA 1050 and MSA 2052 come from the HPE fifth-generation storage family, providing advanced data storage features right out of the box. Some of the interesting features of these arrays include:

- **Introduction to hybrid flash storage**—MSA 1050 is flash ready, while MSA 2052 comes with 1.6 TB of flash capacity. Start small and scale as needed with any combination of solid-state drives (SSDs), or enterprise or midline SAS drives. Add disk enclosures to the MSA array via SAS expanders to get more capacity.
- **Highly available with a wide range of connectivity options**—Both arrays come preconfigured with a choice of highly available dual controller systems that support direct-attached 12 Gb SAS, 1GbE and 10GbE iSCSI SAN, or 8 Gb/16 Gb Fibre Channel SAN.
- **Easy management**—Intuitively manage and monitor MSA arrays with the MSA Storage Management User Interface (SMU v3.0), a web-based management interface with no need to install agents. SMU provides a fully scriptable command-line interface (CLI) for automating tasks. Get visibility into the array, controllers, virtual disks and every single hard disk drive (HDD).
- **Enterprise-like data services in entry-level SANs**—HPE Advanced Virtualized Array Data Service is included out of the box with MSA 1050 and MSA 2052 arrays—as are thin provisioning, SSD-based read-caching, and automated sub-LUN tiering.

Configuration considerations

Scalable storage solutions based on the HPE ProLiant DL360 Gen10 with HPE MSA 1050 and HPE ProLiant DL325 with HPE MSA 2052 are equipped with the CPU, memory, and storage resources to provide backup, file serving, cold storage, and small-scale storage up to the stated solution capacity.

Note

VMware® does not support servers direct attached to the MSA 2052 array via direct-attach iSCSI cables. To get VMware to work, the customers should connect the servers to the MSA 2052 array via a 10GbE network switch such as the OfficeConnect 1950 switch as recommended in the solution bundle.

Operating System and storage considerations: HPE ProLiant Gen10 servers

The Microsoft Windows Server operating system (OS) is intended to be installed on the dual SSDs, which should be configured as a RAID 1 array to protect against the failure of one disk. The remaining HDDs should be configured as HBA Pass-through as required by the OS. More storage can easily be added to expand capacity now or as your needs grow.

Table 2. Base system plus offer elements

| | Affordable scalable storage HPE ProLiant DL360 Gen10 with HPE MSA 1050 | High-performance scalable storage HPE ProLiant DL325 Gen10 with HPE MSA 2052 |
|--------------------|--|--|
| Solution capacity | 50–150 users/7.2 TB | 150–250 users/10.8 TB (plus 1.6 TB SSD cache) |
| Server | HPE ProLiant DL360 Gen10 1U rack 8 x SFF hot-plug bays | HPE ProLiant DL325 Gen10 1U rack 8 x SFF hot-plug bays |
| Processor | 1 x Intel® Silver 4208 (8 core) | 1 x AMD EPYC 7351 (16 core) |
| Memory | 2 x 16 GB PC4-2933Y-R | 2 x 16 GB PC4-2666V-R |
| HDDs (boot volume) | 2 x 300 GB 10K SAS | 2 x 300 GB 10K SAS |
| Disk controller | HPE Smart Array P408i-a Gen10 (internal SAS controller) HPE Smart Array E208e-p Gen10 (for connectivity to the MSA array) | 1 x HPE Smart Array P408i-a Gen10 (internal SAS controller) |
| Network | 4 x ports at 1GbE | 4 x ports at 1GbE HPE 10/25 Gb 2P 640FLR-SFP28 Ethernet Adapter (for iSCSI connectivity to the MSA 2052 array) HPE 1950 12XGT 4SFP+ switch (recommended) |



Table 2. Base system plus offer elements (continued)

| | Affordable scalable storage HPE ProLiant DL360 Gen10 with HPE MSA 1050 | High-performance scalable storage HPE ProLiant DL325 Gen10 with HPE MSA 2052 |
|-------------------------------|--|--|
| Power supply | 2 x 500W | 2 x 500W |
| Software | Microsoft Windows Server 2019 Standard—16-Core License HPE iLO Advanced | |
| External Array Storage | 1 x HPE MSA 1050 12 Gb SAS dual controller 24 SFF storage—up to 24 SFF drives, expandable to 96 SFF drives via a maximum of three additional MSA 2050 enclosures | 1 x HPE MSA 2052 SAN dual controller SFF storage—up to 24 SFF drives, expandable to 192 SFF drives via a maximum of seven additional MSA 2050 enclosures |
| SSDs | SSD Ready | 2 x 800 GB mixed use |
| HDDs | 1 x HPE MSA 7.2 TB-Bundle of 6 x MSA 1.2 TB 10K SAS | 1 x HPE MSA 10.8 TB-Bundle of 6 x MSA 1.8 TB 10K SAS |
| Connectivity | 2 x HPE 2.0m external mini SAS high density cable (to connect to host server E208e-p controller) | 4 x HPE X240 SFP+ to SFP+ 1.2m direct attach cable (to connect to host server 10GbE NIC or 10GbE switch) |

Note: These configurations represent the solution offers and recommended options.

Microsoft features

- File and storage services (Windows Server role)

Step 3: Don't forget services

HPE Pointnext

A services partner built for your business today and tomorrow, HPE Pointnext enables you to meet availability commitments with a variety of coverage levels and response times, and easily connect to HPE for faster problem resolution. HPE Pointnext offers comprehensive hardware and software services to help increase the availability of IT infrastructure and extend in-house IT staff with HPE expertise. You can do more with less by leveraging service tools with built-in simplification, and remote management tools.

Service offerings include:

- HPE Foundation Care
- HPE Proactive Care
- HPE Proactive Care Advanced
- HPE Installation and Deployment Services

Note

HPE recommends Foundation Care 24x7 as the minimum recommended service level for HPE Small Business Solutions.

Step 4: Choose your flexible monthly payment option

HPE Financial Services

Purchasing new IT and keeping it current can be financially daunting. HPE is offering a better way for you to acquire and pay for the IT infrastructure you need.

HPE Subscription Services allows SMBs to select a complete solution from predefined options that include best-in-class compute, storage, and networking hardware; software; accessories; and worry-free support services for a predictable monthly subscription fee. No large, up-front purchase to make—just subscribe, use, return, and renew. No worries about what to do with old equipment.

Need to expand? Simply add more hardware or services. HPE Channel Partners can offer hardware, software, and support services in a single solution and deliver it in one simplified subscription contract.

HPE's Technology Refresh program replaces ownership with predictable monthly or quarterly payments and provides for a shorter, routine refresh cycle every 24 to 48 months. SMBs don't have to be locked into holding onto aging IT equipment and delaying upgrades. With HPE Technology Refresh, SMBs can have the IT they need to meet business goals and pay overtime to conserve cash, saving 10–15% over three or four years.



Simple, secure, affordable

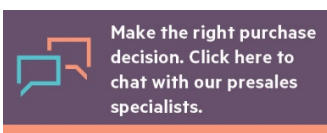
HPE Small Business Solutions lower the cost of accessing easy-to-use, on-premises solutions without sacrificing security. To learn more about HPE Small Business Solutions, visit the resources included in this document, or contact your HPE or authorized Partner representative. Find an IT reseller close to you at findapartner.hpe.com.

Resources

- Solution brief: [HPE Small Business Solutions for Scalable Storage](#)
- [ProLiant Server and HPE MSA Storage QuickSpecs](#)
- [ProLiant Server Options](#)
- [IT Support Services](#)
- [Get connected](#)
- [iQuote](#)

Learn more at
hpe.com/info/smb

Our solution partner



 **Share now**

 **Get updates**

© Copyright 2019 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

AMD is a trademark of Advanced Micro Devices, Inc. Intel, Intel Xeon, and the Intel logo are trademarks of Intel Corporation in the U.S. and other countries. Microsoft and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. All other third-party marks are property of their respective owners.

