

HPE Small Business Solutions for Unified Threat Management

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

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HPE point of view

Every business should be armed with security against cyberattacks

Cyberattacks get worse every year. Even as the number of attacks and amount of damages increase, cybercriminals continue to evolve their tactics. For example, ransomware attacks, which hold your data hostage, are increasingly prevalent and hard to avoid. And small businesses are increasingly under attack. Hackers launch an attack every 39 seconds on average,¹ and 43% of attacks target small businesses.²

Hewlett Packard Enterprise believes that your server infrastructure should be your strongest defense, armed with the latest innovations to guard against and recover from security attacks. Limiting security to firewalls is no longer enough. That's why we help you protect your business with innovations in firmware protection, malware detection, and firmware recovery—right down to the silicon.

HPE Small Business Solutions for Unified Threat Management

HPE Small Business Solutions for Unified Threat Management (UTM) are based on HPE ProLiant servers, powered by Intel® Xeon® processors, and tested, optimized, and validated with ClearOS™ operating system (OS). 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.

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. All the HPE Small Business Solutions will be available in iQuote in Q2 2019.

HPE Small Business Solutions can be built in iQuote by selecting the Solution Model from the SMB Offers, along with use-case-specific offer elements. The 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 models** offer a simple server solution with the lowest cost.
- **Performance models** offer more power and features with a top-selling configuration at a competitive price.
- **Solution models** provide a powerful, 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.

¹ Security Magazine, “[Hackers Attack Every 39 Seconds](#),” February 2017.

² Small Business Trends, “[Cyber Security Statistics—Numbers Small Businesses Need to Know](#),” January 2017.



Solution details

Managing, paying for, and securing IT infrastructure can be a real challenge. HPE Small Business Solutions for Unified Threat Management are designed to meet your needs for increased security and reduced costs while greatly reducing complexity.

Secure

You need to lower risk. HPE ProLiant servers are powered by Intel Xeon processors, and feature designed-in security that protects against attacks and enables quick recovery from unplanned downtime.

- Built-in security features—such as silicon root of trust and secure lifecycle—make HPE ProLiant Gen10 the world's most secure industry-standard servers.³
- Optional HPE Smart Array SR Secure Encryption⁴ is a controller-based, data-at-rest encryption solution for any SAS/SATA drive (except for tape drives) connected to the HPE Smart Array Controller or HPE Smart Host Bus Adapter.
- Optional HPE Defective Media Retention (DMR) from HPE Pointnext lets you keep—and control—your disk and your data in the case of a malfunction.
- ClearOS offers proven security apps and functions such as automatic updates, group policies, and active directory integration. Plus, ClearOS has already delivered [patches to overcome the Spectre and Meltdown issues](#).

Simple

It takes a lot of resources to manage diverse and legacy IT. To be productive, you need simple, automated, high-performing IT that reduces the time spent managing and maintaining systems, leaving more time for strategic activities.

- HPE Small Business Solutions are a one-stop shop for hardware and software, making them easy to deploy.
- HPE Rapid Setup Software provides a simple, guided process for installation that takes much less time and reduces the chance of error.
- HPE iLO arms you with the tools to manage your servers efficiently, resolve issues quickly, and keep your business running—from anywhere in the world.⁵
- Integrated HPE Pointnext Services help you remove complexity and respond more rapidly to business demands.
- ClearOS provides an intuitive, web-based user interface that combined with HPE ProLiant Gen10 automation, results in 6X faster deployment.⁶ Plus, ClearOS integrates with existing IT, including Microsoft® Windows Server®.

Affordable

Resource constraints often lead SMBs to delay upgrading IT, which limits competitiveness.

- HPE Small Business Solutions make IT affordable and easy to consume with preferential pricing and low-price options.
- HPE offers financial tools that enable you to enjoy the benefits of modern IT and become more competitive with businesses of all sizes.
- HPE Financial Services make purchasing easy, with flexible financing options that extend the budget and allow you to enjoy the benefits of modern IT now.
- HPE Subscription offers a flexible option that packages best-in-class hardware, software, accessories, and services into a predictable monthly payment.
- ClearOS is a cost-effective alternative to purchasing individual server, network, and gateway components. Plus, there are no up-front costs for the OS—pay just for the apps and subscription services you need.⁷ Together, HPE ProLiant Gen10 servers with ClearOS deliver up to 50% lower total cost of ownership.⁸

³ Based on external firm conducting cybersecurity penetration testing of a range of server products from a range of manufacturers, May 2017. Because the MicroServer does not have iLO 5, silicon root of trust is not available for the MicroServer Gen10.

^{4,8} HPE Secure Encryption is not supported on the HPE ProLiant MicroServer.

⁵ iLO is not available on the HPE ProLiant Gen10 MicroServer.

⁶ HPE case study, "[Business model in a box](#)," September 2017.

⁷ ClearOS Marketplace apps are optional and may be fee-based. Refer to the [ClearOS Marketplace](#) for details.



World-class partnerships

HPE and Intel® have long been strong collaborators. The Intel technology inside HPE servers and storage—including Intel Xeon processors and Intel solid state drives (SSDs)—offers the performance, orchestration, and security features you need to better manage shared resources and modernize your data center. HPE and Intel together provide you with a range of innovations designed for optimized performance in a hybrid cloud infrastructure environment.

HPE and ClearCenter™ are partnering to offer HPE ProLiant servers with ClearOS, an open-source Linux® server OS and ClearVM, an open-source hypervisor. Together, HPE ProLiant servers with ClearOS and ClearVM give you the simplicity and cost savings you’re looking for in the cloud—with the security and availability only on-premises solutions can provide. In fact, ClearOS is a trusted and proven model with more than 400,000 current deployments worldwide.

HPE Small Business Solutions

Validated offers for SMBs, ROBOs, and SOHOs

HPE Small Business Solutions for Unified Threat Management are tested, optimized, and validated to create a one-stop shop for ready-to-go packaged solutions including hardware, software, services, and top-selling HPE ProLiant options. They come in two configuration sizes to accommodate small office/home office (SOHO) customers, SMBs, and remote offices/branch offices (ROBOs) with support for 1 to 100 employees.

HPE Small Business Solutions for Unified Threat Management

The combination of HPE ProLiant servers and ClearOS creates a portfolio of simple, secure, and affordable solutions that are ideal for a variety of foundational SMB use cases.

HPE Small Business Solutions for Unified Threat Management

- **Protect your business.** HPE Small Business Solutions for Unified Threat Management are complete Unified Threat Management (UTM) solutions that help you protect files and applications from network attacks, malware, viruses, and phishing scams. They also enable filtering and blocking of time-wasting apps, sites, and services so SMBs can be as productive as possible.

Workloads



Unified Threat Management

Protect the network from external attacks and safeguard employee productivity by filtering and blocking time-wasting apps and services.

Figure 1. SMB workloads

Build your solution

Step 1: Size your solution

HPE Small Business Solutions for Unified Threat Management are sized by the number of employees. The following chart shows the available configurations, with guidance on which base configuration to select based on the number of users you need to support.

HPE Small Business Solutions for Unified Threat Management portfolio sizing matrix

Server used for base configuration	Users supported
HPE ProLiant DL20 Gen10	1-100
HPE ProLiant MicroServer Gen10	1-10



Step 2: Choose the right configuration and recommended options

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

HPE Small Business Solutions consist of a base system plus offer elements. These combinations are the foundation for special pricing and are the starting point for building your solution configuration. After selecting the appropriate Small Business Solution configuration for your business outcome and sizing requirements, you may also wish to expand its capabilities by adding recommended options.

The configurations for HPE Small Business Solutions were designed for cost-effectiveness and structured as building blocks for easy expandability. They are equipped with HPE SSDs for fast OS boot and for more demanding applications. Redundant SSDs are included for OS mirroring. SAS drives provide faster data transfers for better performance and low latency, and can be used for storage when database deployment on a VM guest is expected. Multiple drives can be configured in hardware or software RAID for increased availability and data protection. And most HPE Small Business Solutions are equipped, or can be equipped, with redundant power supplies for additional availability protection.

Small Business Solutions plus recommended options provide an optimum configuration for the designated number of users in each use case and can scale up as needs grow, depending on the workload. To scale up, add optional storage and/or memory to support more users or more resource-intensive applications.

HPE Small Business Solutions for Unified Threat Management

HPE Small Business Solutions for Unified Threat Management are designed to protect the network from external threats and from employees squandering productivity on time-wasting apps and services. They are equipped with sufficient CPU, memory, and storage resources to provide multiple gateway and network functions. They can be expanded as needed for increased workloads.

Operating system and storage considerations

ClearOS is intended to be installed on a single SSD. A second SSD can be added to configure a RAID 1 array to protect against the failure of one disk. For the HPE MicroServer Gen10, the two remaining hard disk drives (HDDs) should be configured as a RAID 1 array for protection against loss of a drive. More storage can easily be added to expand capacity as needs grow.

Base system plus offer elements

	HPE ProLiant MicroServer Gen10	HPE ProLiant DL20 Gen10
Offer base SKU	P04923-xxx	P06479-xxx
Solution capacity	1–10 users	1–100 users
System	Micro tower 4 x LFF non-hot-plug bays	1U rack 4 x SFF hot-plug bays
Processor	AMD Opteron™ (4 core)	Intel E-2134 (4 core)
Memory	1 x 8 GB PC4-2400	1 x 16 GB PC4-2666
SSDs	1 x 240 GB 6G read intensive SATA	1 x 240 GB mixed-use SATA
Disk controller	Maxell (integrated)	HPE Smart Array E208i-a Gen10
Network	2 x ports at 1GbE	4 x ports at 1GbE
Power supply	1 x 200W	1 x 500W
Software*	ClearOS Silver subscription, ClearOS Marketplace apps	ClearOS Bronze subscription, ClearOS Marketplace apps HPE iLO Advanced

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

* HPE Small Business Solutions come with HPE Rapid Setup Software on a USB that has a ClearOS boot image preloaded. The ClearOS Marketplace is where you can obtain apps for Unified Threat Management. Refer to the [ClearOS Marketplace](#) for details. ClearOS subscriptions can be purchased from either ClearCenter or HPE; all ClearOS software support is delivered by ClearCenter.



ClearOS applications

The ClearOS Marketplace provides access to a wide range of UTM apps,⁹ including:

- [1-to-1 NAT](#)
- [Antimalware Rules](#)
- [Application Filter](#)
- [Attack Detector](#)
- [Bandwidth and QoS Manager](#)
- [DHCP Server](#)
- [DNS Server](#)
- [DMZ](#)
- [Dynamic VPN](#)
- [Gateway Antiphishing](#)
- [Gateway Antivirus](#)
- [Gateway Management Business](#)
- [Intrusion Detection System](#)
- [Intrusion Prevention System](#)
- [Linux Firewall](#)
- [Multi-WAN](#)
- [OpenVPN](#)
- [Protocol Filter](#)
- [Web Content Filtering System](#)

Note:

- We highly recommend installing all the above apps for a robust UTM Solution that matches most industry UTM appliances; however, you can opt out of any app.
- For quick and easy install, consider creating a [Quick Select File](#), which is designed to efficiently install selected apps and packages during ClearOS installation for a particular use case. It is ideal for managed service providers (MSPs) who build the same solution for multiple customers and want to save installation and setup time. A Quick Select File will be made available for each HPE Small Business Solution.

Step 3: Don't forget services

HPE Pointnext Services

A services partner built for your business today and tomorrow, HPE Pointnext Services enable 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.

⁹ ClearOS Marketplace apps are optional and may be fee-based. Refer to the [ClearOS Marketplace](#) for details.



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: Consider a quote for a flexible monthly payment option**HPE Financial Services**

Purchasing new IT and upgrading it in three or four years can be financially daunting. HPE is offering a better way for you to acquire and pay for the IT infrastructure you need, from options to pay monthly, to solutions that make it easier to scale or upgrade.

HPE Subscription Services allow 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 subscriptions. 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% to 15% over three or four years.

Simple, secure, affordable

HPE Small Business Solutions lower the cost of accessing easy-to-use, on-premises and hybrid cloud 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.

Resources

- Solution brief:
 - [HPE Small Business Solutions for Unified Threat Management](#)
- [Microsoft Windows Server ROK](#)
- [ProLiant Server QuickSpecs](#)
- [ProLiant Server Options](#)
- [IT Support Services](#)
- [Get connected](#)
- [iQuote](#)



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