

Mobilize your workforce

HPE Moonshot and Citrix solutions for the secure delivery of apps and data

Enable workplace productivity with secure, mobile workspaces for your employees

Redefining what's possible

Optimize application performance

With a system that truly fits the workload, it is running by delivering the right compute power.

Realize breakthrough economics

Delivering a high-performance anywhere-access user experience, while offering significant power, space, and cost savings.

Accelerate business innovation

Supporting even the most demanding apps, using the right-fit business delivery model.

Today's IT landscape is all about mobility—and its impact can disrupt your workforce. Workers need access to their entire workspace, apps, data, and services, all the time. And of course, they want the flexibility of using whichever device they prefer, to do their jobs. If you're concerned about meeting your workforce's needs—while also keeping your data secure and controlling operating costs—HPE Moonshot with Citrix solutions can help.

The new norm for worker productivity

Until recently, most people worked in stationary physical offices. When they left the office at the end of the day, they left their work behind. Today, the new norm is using personal devices to work anywhere there's an Internet connection, at any time of the day or night. In fact:

- As many as 69 percent of information workers now work outside the office¹
- Around 71 percent of employees do not feel equipped with technology necessary to get their jobs done outside the office²
- Around 66 percent of technology decision makers say the lack of data protection capabilities on mobile devices concerns them³

If your organization feels the pressure of this disconnect between the technology employees need and what you can currently provide, the time is now to enable the mobile workspace—securely uniting applications, data, and services on any device over any network and cloud—using a proven solution built on HPE Moonshot System, optimized for various Citrix® software products.

Right compute choices to achieve better business outcomes

Whether you choose solutions that streamline application delivery, offer hosted desktop infrastructure, or deliver a mobile workspace, HPE and Citrix offer what you need to boost mobile productivity while maintaining IT operational control. Innovative HPE Moonshot with Citrix solutions enable you to:

- Address your specific mobile workspace challenges and requirements.
- Improve compliance and security, with all data residing on centralized servers, enabling your IT to have greater control over apps and data.

¹ Forrester Business Technographics Global Application and Collaboration Workforce Survey, 2014

² Forrester Business Technographics Global Telecom and Mobility Workforce Survey, 2014

³ Forrester Business Technographics Security Survey, 2014

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With the combined market leadership of the number one worldwide servers and the number one desktop and app virtualization, HPE and Citrix are better together. Our joint solutions are based on the best integrated and validated technologies.⁵



Benefits of HPE Moonshot with Citrix software

Optimize application performance

- Support graphics-intensive apps without expensive discrete graphics cards
- Speed recovery and failover with smaller failure domain
- Deliver multiple XenDesktop® FlexCast app/desktop models from a single system
- Add more enclosures to meet growing needs, with no need for racking or extensive cabling

Realize breakthrough economics

- These solutions have common criteria and FIPS certifications; they are the only solutions currently available that can make that claim.

Up to 79 percent less space (Supporting around 2,000 users in 4.3U vs. 26U)⁶

Accelerate business innovation

- Extending higher-end graphics apps to more users to boost productivity
- Better real-time decision-making
- Dynamic support for a continuum of apps, using a single system

Figure 1. HPE Moonshot with Citrix—innovative infrastructure designed for mobility

- Boost cost-efficiency by using the right compute for each specific workload, so there are no wasted resources.
- Improve space and environmental efficiency; HPE Moonshot’s high-density design reduces space, cooling costs, and the energy footprint.
- Support up to 2,000 users in a single HPE Moonshot chassis.⁴

Easy -to-scale mobile workspace

HPE Moonshot for Citrix Mobile Workspaces

With HPE Moonshot for Citrix Mobile Workspaces, your organization receives the technology you need to boost mobile productivity and speed innovation, while maintaining IT operational control and improving operational efficiency. To empower people to work their way, Citrix Workspace Suite enables your IT to securely deliver all apps—Windows®, Web, Software-as-a-Service (SaaS), and mobile—data, and services from any device, over any network, at any time. Easy to expand and scale as your business grows, this complete system includes a mix of HPE ProLiant m710x, m710p, m510, and m700 server cartridges. In addition, the system is designed to easily integrate into your existing IT infrastructure. This unique solution allows you to mix-and-match cartridges with the right Citrix technology to support a wide variety of use cases and workloads. For example, you can use:

- m710x cartridges for XenApp servers or for Hosted desktop infrastructure (HDI) desktops for workstation class users needing really complex 3D graphic applications
- m710p cartridges for XenApp servers or for HDI desktops for knowledge and power users
- m510 cartridges for XenApp for users who need more storage and compute without GPU
- m700 cartridges as dedicated HDI desktops for low-end users

⁴ Based on HPE and Citrix internal testing

⁵ Citrix: Worldwide Virtual Client Software 2015 Vendor Assessment™, ID, 2015 and HP Servers: “The Real Story about Server Market Share”, IDC, 2015

⁶ According to an HPE and Citrix internal testing



Capable desktops on demand

Hosted desktop infrastructure based on HPE Moonshot m700 with Citrix XenDesktop

You can confidently deploy desktop virtualization as part of your mobility strategy when you choose Moonshot m700 for your hosted desktop infrastructure. This proven solution combines compute, storage, and networking to deliver Microsoft® Windows-hosted desktops powered by Citrix XenDesktop. The solution provides a dedicated personalized PC experience with the business graphics and multimedia performance essential for today's mobile workers. The unique hypervisor-free architecture improves total cost of ownership (TCO) by up to 44 percent and lowers power consumption by up to 63 percent,⁷ as compared to desktop PCs. With this offering, your company benefits from:

- **Uncompromised PC experience**—predictable desktop performance with independent compute, networking, storage, and graphics for each user.
- **Simple deployment**—an experienced Citrix XenDesktop administrator can integrate the system in approximately two hours, with no SAN or virtualization layer, and with dedicated hardware resources providing predictable cost, capacity planning, and scaling.
- **Better TCO**—increased performance, less space, and less complexity, combined with lower operating costs.

Powerful graphics desktops for the financial trading floor

HPE Moonshot for Citrix XenDesktop with the m710p Server Cartridge

Similar to the HDI solution on m700, this offering leverages the high-performance capabilities of the HPE ProLiant m710p Server Cartridge to create a powerful data center-hosted PC. In this case, XenDesktop connects users of Citrix receiver-enabled endpoints to their own ProLiant m710p Server Cartridge, enabling mobile workers to use high-end graphics apps and leverage the full power of the entire machine for their workspace.

⁷ Cost comparison between a PC and a Moonshot cartridge. The moonshot cartridge consumes less energy, so the TCO is better on initial buying cost and on power savings.

This configuration happens to be the perfect HDI to serve the trading floor. The solution offers dedicated graphics and performance without virtualization. It is a single platform (server, storage, and networking) assuring simple deployment and management. The m710p cartridge is able to support the high-graphics and the multi-device, multi-monitor user requirements. The following applications were tested and showed great performance on a Moonshot trader environment: Thompson Reuters (Eikon application), Microsoft Excel, flash video streaming, Bloomberg, FrontArena. HPE Moonshot and Citrix trader workstation offer multiple benefits:

- Uncompromised end-user experience
- Simplicity, reliability, and operational continuity
- High security and compliance
- Lower operation costs
- Better working environment for traders with optimized ergonomics
- Multiple monitors, including graphic-intensive monitors, where traders must be able to view a number of applications all at once, in a limited space
- Access to high-performance and time-sensitive applications like Bloomberg, Reuters, ICE, and Xtrader
- Live video feeds from various news and media outlets for up-to-the-minute information
- Unique peripherals, such as the Bloomberg keyboard

Scalable graphics application delivery

HPE Moonshot for Citrix XenApp with the m710p Server Cartridge

With HPE Moonshot for Citrix XenApp, you can quickly scale app delivery solutions to hundreds or thousands of users. The HPE ProLiant m710p also includes a powerful graphics chip that supports superior graphics and high-definition video performance for users. XenApp is an application virtualization solution that helps you optimize productivity with universal access to virtual apps, desktops, and data from any device. This combination allows you to:

- Deliver practically any application with cost-effective, scalable infrastructure.
- Gain control and reduce operational complexity by centralizing apps in your data center, enabling you to secure corporate access, reduce risk of information loss, support real-time collaboration, consolidate app delivery into a single architecture, and speed delivery to mobile devices.
- Do more with less, and get more for less; deliver the right compute for the right workload at the right economics—every time.



Complex 3D CAD applications easily accessible

HPE Moonshot for Citrix XenApp or XenDesktop with the m710x server cartridge

With its Intel® Xeon® E3 v5 processor, the m710x cartridge shows 30 percent more performance, compared to its predecessor and it gives you the possibility to have more memory and storage. Using the cartridge in XenDesktop mode (1:1) allows you to deliver more compute, graphics, and storage to your high-end graphics users like engineers or developers without resource sharing. In a XenApp mode, the cartridge allows you to support a handful of users needing variety of applications. For example, you can fit 75 knowledge workers in a single cartridge.

At the same time, the m710x has another considerable advantage of the IT administrator. For the first time a Moonshot cartridge comes with embedded iLO 4 remote console for easier deployment and administration. It also has additional mini display port for direct monitor access. With this new cartridge, you benefit from:

- Easier deployment and management interface
- Powerful graphics to support even your most demanding users
- Operational cost savings



Amazing platform for application delivery or virtual desktop infrastructure (VDI) deployments

HPE Moonshot for Citrix XenApp and virtual desktops with the m510 Server Cartridge

The m510 cartridge has an Intel® Broadwell processor with eight or 16 cores and delivers up to 128 GB of RAM and up to 1 TB of storage. It is without a doubt the most powerful Moonshot cartridge. While it doesn't include Intel® Iris™ Pro graphics chip, it delivers more compute and more memory for users who need non-GPU based applications. In a XenApp you can fit 170 traditional office workers or 145 knowledge workers in a single cartridge. The m510 can also run XenServer for virtual desktops delivery. This offer is helping you get:

- Higher user density than ever
- Better cost savings
- Easier deployment and manageability

Why HPE Moonshot

HPE Moonshot System provides an all-new class of workload-optimized servers—delivering peak performance while addressing the challenges created by today's complex mobile environments. HPE Moonshot boosts efficiency by sharing management, power, cooling, networking, and storage resources across all server cartridges in a 4.3U enclosure. So rather than dedicate these resources to each server in the enclosure, one set of shared resources applies to all.

HPE Moonshot is precisely engineered and designed for better business outcomes:

- Application-optimized—tested and integrated for optimal performance
- Highly flexible fabrics—supporting a range of current and future capabilities
- System-on-chip—technology designed for high-compute efficiency
- Dense form factor—hot-pluggable components and significantly less cabling



Get the services you need

HPE Technology Services for Mobile Workspaces based on Citrix XenApp and XenDesktop solutions help provide the optimal customer experience by delivering confidence and reducing downtime risk. Offering Citrix-certified expertise, HPE Technology Services can help you:

- Transform with solution Consulting Service
- Seamlessly deploy with Installation Service
- Resolve issues with either HPE Foundation Care hardware and software support for HPE Moonshot System and Citrix XenApp and XenDesktop software, or HPE Datacenter Care for your entire IT infrastructure
- Train your IT staff with HPE Educational Services

Learn more at
hpe.com/servers/moonshot



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