

Revolutionize your desktops

HP ProLiant m700 Server Cartridges

Your desktop environment is growing increasingly costly and complex in terms of devices to purchase, manage, and support. Deploy HP Moonshot and make those worries disappear—while using less energy at less cost.¹



Drastically improve your infrastructure economics

Rather than continue to spend precious budget dollars on energy for power and cooling, you can use HP ProLiant m700 Server Cartridges and save. In fact, when HP migrated its own Web pages and objects from traditional HP-UX-based servers to Linux-based Moonshot servers, we cut energy consumption by a whopping 89 percent.¹

Release your desktops to the cloud

For decades, most enterprises followed the tried-and-true method of dedicating an operating system and business applications to each employee's desktop. This model was very effective, as long as end users worked from a single stationary system.

Today, however, "stationary" has evolved to "global and mobile," and workers are on the move.

1. They want the ability to work from any location, at any time, using any device.
2. They want instant access to apps and information.
3. And they want seamless collaboration, instant messaging, and video conferencing capabilities.

But here's the problem: most legacy server infrastructures weren't designed to meet these once though radical demands.

So as you consider your desktop environment, do you think it's time for a fundamental change—like moving it to your data center

and hosting it in a secure cloud? If your answer is "yes," you're ready for HP ProLiant m700 Server Cartridges.

Who benefits from the m700?

Any organization that supports its desktop infrastructure on-premise can benefit from the cost, space, simplicity, and performance benefits of the HP ProLiant m700 System.

Meeting your desktop challenges

Optimized for cost-effective hosted desktop infrastructure (HDI) delivery, the HP ProLiant m700 Server Cartridge is designed to resolve the top three challenges virtually every organization faces today—regardless of size or global location.

- Reduce costs—Internal HP research shows that when compared to traditional servers, Moonshot servers use less energy for power and cooling, and cost less to purchase.
- Save space—Another cost-saving benefit, HP Moonshot servers are so compact they use 80 percent less data center space.

¹ According to internal HP Engineering that compares HP Moonshot servers with traditional x86 server technology.

- Boost performance—With four AMD Opteron X2150 Accelerated Processing Units (APUs), HP ProLiant m700 Server Cartridges offer higher single-threaded performance than other chips available today. According to AMD, Opteron X2150s are the highest density, most power-efficient small-core x86 processors ever built.

HP Moonshot at a glance

An exciting new class of server, the HP Moonshot System is engineered to address the IT challenges created by today's complex desktop environments—as well as by the Web, Big Data, Voice over IP (VoIP) telephony, and others. Built from chips more commonly found in smartphones and tablets, HP Moonshot hosting servers:

- Fit in the palm of your hand
- Significantly reduce energy consumption
- Offer breakthrough scale and performance
- Cost much less than traditional server solutions

In addition, Moonshot servers boost efficiency by sharing management, power, cooling, and networking resources across all servers in the chassis. So rather than dedicate resources to each server in the chassis, one set of shared resources applies to all. And instead of managing each server individually, you can manage them all at the same time—a huge time- and money-saving benefit.

Did you know?

- The up-front cost of virtual desktops—including servers, storage, devices, and software licenses—is roughly 25 percent less than that of physical desktops, according to a Citrix study.²

The system

The HP Moonshot System consists of the HP Moonshot 1500 Chassis and application-optimized HP ProLiant servers, also called “cartridges.” As you know, the ProLiant m700 Server Cartridge is optimized for hosting the desktop infrastructure.

A single 4.3U enclosure holds up to 45 AMD-based cartridges, two network switches, and supporting components. With support for up to 7,200 server cores per rack (when you use quad-core processors), HP Moonshot servers occupy one-eighth of the space required by traditional servers.

While you might start your Moonshot journey with an m700 Server Cartridge for supporting your hosted desktop environment, you can add other cartridges to support additional use cases at any time. Other cartridges in the Moonshot family are optimized for:

- Big Data
- Web
- Hosting
- Content delivery
- VoIP/LTE (telecommunications)
- Seismic processing
- Media transcoding
- Open source cloud Web serving
- Analytics

Bringing it all together

HP hardware is a critical part of the Moonshot system. But the “special sauce” that optimizes each cartridge for a particular workload is the technology delivered through the HP Pathfinder Innovation Ecosystem.

Including technology from leaders in their respective areas—e.g., hosting, Web, Big Data—means you can access groundbreaking solutions in months, instead of years. Partners in the HP Pathfinder Innovation Ecosystem include AMD, Intel®, Microsoft®, Red Hat, SUSE and many more.

Get the support you need

To ensure you get the services you need when you need them, HP offers all-new Moonshot Concierge Support—a new approach to acquiring compute capacity and service expertise, tailored to your unique needs.

- Consulting services can help you plan your workloads on HP Moonshot.
- Deployment services and/or training help you get started quickly.
- HP Foundation Care to HP Datacenter Care provide flexible choices for ongoing support of your environment.

And in case you want to evaluate your applications running on HP ProLiant m700 Server Cartridges, you can use an HP Discovery Lab. With facilities located around the world, Discovery Labs provide fast and easy access to technology, industry experts, and peers—enabling you to confidently choose the right solution for your unique needs.

Contact us at

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Learn more at

hp.com/go/moonshot
hp.com/services/hyperscale

²Virtual Desktop Cost Analysis White Paper, Citrix, 2012
citrix.com/content/dam/citrix/en_us/documents/products/virtual_desktop_cost_analysis.pdf

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