



HPE Moonshot System for media processing

More streams per rack unit using less power and space

Density does matter when you are trying to achieve higher streams per rack unit along with lower costs per stream.

Specs at a glance

Server blade

- HPE ProLiant m710x Server Blade

Compute

- Intel® Xeon® E3-1585L v5 with built-in Intel® Iris Pro™ P580 graphics

Memory

- Up to 64 GB of ECC dual channel DDR4 (2133 MHz) SODIMM Low Voltage Memory

Storage

- Up to 4 TB of NVMe SSD with 1 GB per sec read/write

Networking

- Mellanox Connect-X3 dual 10GbE NIC per CPU. Supports RDMA over Converged Ethernet (RoCE)

Operating system

- Windows Server®, Windows®, Ubuntu, RHEL, SUSE SLES, CentOS, XenServer, VMware ESXi™

Hewlett Packard Enterprise Moonshot solves the need for video scale out with a broad ecosystem of software partners, new solutions like just-in-time transcoding (JITT) & Cloud TV, as well as breakthrough economics to address the growing video market.

HPE Moonshot value

The metrics are clear that density does matter when it comes to the **HPE Moonshot**. Here are a few significant metrics showing how the Moonshot m710x solution stacks up against traditional servers:¹

Density: Streams/rack unit:

- Up to 27X more streams/rack unit

Cost: Price/stream:

- Up to 92 percent less cost

Power: Watts/stream:

- Up to 91 percent less power

Complexity: Cables/stream:

- Up to 98 percent less complex

With more streams per rack unit, less cost per stream, and less power per stream you can expand your offerings and satisfy subscriber demand for richer UHD 4K content, without the need for massive expansion of data center space and power.

Demands on traditional IT infrastructure are high

If delivering video content is at the core of your business, you need to be able to deliver increasing volumes of content to a growing number of devices. And you need to do this in different formats and resolutions. This requires adding significantly more processing power in your data centers to handle the increasing subscriber demand for UHD 4K content and other capabilities subscribers are demanding today.

Scaling up traditional rack-mount infrastructure is challenging due to power, space, and management limitations. Ultimately, with traditional servers, your IT organization will most likely struggle to keep pace with your growing business needs. How can you best support more streams per rack unit while reducing your cost per stream?

¹HPE Moonshot Video Transcoding benchmarking performance report, HPE Engineering, February 2015





HPE Moonshot is the next evolution of video transcoding, delivering HD performance at SD prices.

HPE Moonshot: redefining video transcoding infrastructure

HPE is redefining the economics of compute infrastructure for video transcoding applications, delivering better performance at an unparalleled density and at a lower price.

While traditional servers rely on dedicated components, HPE Moonshot shares management, power, cooling, networking, storage, and fabric, and is also capable of supporting up to 45 server blades in a 4.3U chassis.

This architecture is key to delivering more streams per rack, per watt, and per dollar, helping you expand your offerings and adopt new formats without the need for massive expansion of data center requirements. HPE does not sell the video transcoding software but has partnered with the leading Independent Software Vendors (ISVs) to best meet your company's needs.

Services are available from HPE and our partners to assist you in strategically planning your transition to Moonshot. We are here to support your needs with

services ranging from hands-on training, on-site or factory-integrated installation, to ongoing support from Foundation Care to **Datacenter Care**.


Make your move to HPE Moonshot

HPE Moonshot System is a transformative approach to computing, enabling breakthrough capabilities that were impossible when using traditional servers.

Its unique architecture provides a broad choice of specialized server blades optimized for specific workloads, with the extreme density and power efficiency needed to economically scale up to support millions of end users.

Let HPE Moonshot help you stay competitive and meet your growing subscriber demands with a solution that is purpose-built for the video transcoding needs of the next decade.

Learn more at **hpe.com/us/en/servers/media-moonshot.html**

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