SECURE, SCALABLE COLLABORATION WITH PREDICTABLE GPU ACCELERATION AND LOW TCO

VDI powered by AMD Multiuser GPU (MxGPU) technology impacts IT management overhead and empowers collaboration while helping safeguard sensitive data.

Staying competitive in today's economy means shorter product innovation time and development cycles and working with remote employees and external parties around the clock. It means finding new ways to do more with less, including replacing manual tasks with powerful 3D applications and the powerful computers needed to run them. It also means ensuring that authorized users can access current data while also protecting that data. It can even mean supporting a variety of hardware and operating systems.

AMD Multiuser GPU (MxGPU) technology offers the following key benefits to manufacturers:

- Mobility & Collaboration: Users can access their virtual desktops and allotted GPU resources on virtually any device and have full OpenCL™ and GPU acceleration from virtually any location. Migrating data to the datacenter simplifies version control, helps boost productivity, and can foster collaboration among local and remote teams.
- 2. Security: Centralized data storage facilitates backup and other protective measures while eliminating the possibly catastrophic losses caused by loss or theft of that data.
- 3. Performance: Hardware-based virtualization brings workstation-grade 2D/3D graphics acceleration to the datacenter using the Single Root I/O Virtualization (SR-IOV) PCle® virtualization standard. This eliminates proprietary and complex software from the hypervisor while also removing potentially vulnerable abstraction layers. Each VM uses native AMD drivers with 100% compatibility and access to all GPU graphics and compute functions on the server. Each GPU can support 1 to 16 users and requires no profiles.
- 4. Simplicity: IT departments no longer need to support individual workstations with multiple hardware, OS, and application configurations. Users simply log in to their virtual desktops at virtually any time from virtually any device and receive full workstation performance and GPU acceleration.



Empowers Mobility and Collaboration

Replacing an individual workstation with an access portal means that users have full access to application and data at virtually any time, from virtually any location, on virtually any device, including thin and zero clients. Giving every user the same OS and application environment helps ensure compatibility.

Users transmit commands to the virtual machines and receive fully rendered pixels at full resolution and with full graphics performance in return. Storing and processing data in the datacenter reduces the time-consuming need to transfer and track multiple copies and versions across multiple devices.



Safeguards Sensitive Data

Storing and processing very sensitive CAD and PLM data in the datacenter reduces the need for local copies while improving version control and helping ensure proper backup and archival. It also protects data against situations such as losing a laptop loaded with sensitive data, data loss caused by a virus or hardware failure on a local workstation, and unauthorized access or theft. Moving applications and compute to the datacenter also helps manage software licensing and eliminate piracy or installing unauthorized plugins that can jeopardize compatibility among multiple users.

End users access the VDI environment using their individual network credentials. The IT department always retains control over who can access which applications and data.



Flexible, Scalable Performance Supports Future Growth

Adding a new user is as fast and easy as assigning a virtual desktop with appropriate application and access privileges. The user is productive in minutes on any device, with no need to purchase and maintain an expensive workstation. Persistent desktops allow users to pick up where they left off at any time, while pooled desktops maximize user density by sharing resources, such as among different shifts.

AMDA RADEON PRO

Pure Datacenter Graphics

The hardware virtualization implemented in AMD MxGPU enables workstation-grade 2D/3D graphics performance and provides fast, accurate resource monitoring and metrics to facilitate planning to meet future needs.



IT Management Efficiency

MxGPU-based VDI saves time and money by freeing IT from continually procuring, maintaining, and repairing individual workstations. System maintenance and upgrades takes place in the datacenter, with all affected users seeing nearimmediate results. Hardware-based GPU virtualization also means that IT can assign the exact resources needed by any user with no need to install special drivers or management software in the hypervisor or virtual machines. Instead, each machine uses native workstation AMD drivers. Nearly every application that runs on a workstation will run in an MxGPU VDI deployment.



Peace of Mind

- Three-year limited product repair/replacement warranty
- Direct toll-free phone (US, Canada) and global email access to dedicated technical support team
- Advanced parts replacement option

For more information, please visit www.amd.com/mxgpu

Specifications

S7100X S7150X2 V340 RADEON PRO V34 AMD FIREPRO S7150 x2 Max. Virtual Machines 16 16 32 Max. Power 100W 265W <300W Form Factor PCle® 3 MXM 3.1 Full height & length PCle® 3x16 Full height & length PCle® 3x16 Cooling **Passive Passive Passive** Interface 256 bit 256 bit 256 bit Memory 8GB GDDR5 16GB GDDR5 32GB HBM2 **ECC Memory** supported supported supported DirectX[®] 11.1, OpenGL[®] 4.4 and OpenCL[™] 2.0 **API Support** Microsoft® Windows 10, Windows® 7, Windows® Server 2016, Windows® Server 2008 R2 (64-bit only) OS Support VMware® ESXi[™] 6.5, 6.0, Citrix® XenServer® 7.4+ Hypervisor Supt. VMware® Horizon® View 7.0+, Citrix® XenDesktop® 7.15+, Citrix® XenApp® 7.15+ Remote Vis. Supt.

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