

AMD Radeon™ PRO V620 GPU

AMD
RADEON PRO

Powerful, multi-purpose data center graphics for today's most demanding cloud workloads

The AMD Radeon™ PRO V620 GPU delivers high-performance GPU acceleration for cinematic cloud gaming experiences and to power through graphics-intensive 3D professional and modern office productivity workloads. It is built on the award-winning AMD RDNA™ 2 architecture and features 32GB of dedicated GDDR6 memory, hardware-based raytracing support, and 128MB of all-new AMD Infinity Cache.

Innovative SR-IOV based GPU-partitioning capabilities, two Video Core Next (VCN) engines, and support for the latest graphics APIs, including Direct X® 12 Ultimate, makes the AMD Radeon PRO V620 GPU the flexible, multi-purpose virtualized graphics solution needed to meet a wide range of modern use cases. The AMD Radeon PRO V620 GPU shares the same GPU architecture that powers the latest generation of game consoles and PC game experiences, making it a powerful, familiar platform on which to develop and deliver immersive gaming experiences from the cloud.

Key Features of the AMD Radeon PRO V620 GPU



Powerful Data Center GPU Solution

All new AMD RDNA™ 2 architecture, with 32GB GDDR6 memory and AMD Infinity Cache, as well as dedicated hardware ray tracing to deliver remarkable performance for graphics-intensive workloads and games.



Multi-Purpose Flexibility

Designed to support the latest AMD Radeon PRO and AMD ROCm™ software to facilitate a range of workloads, including cloud gaming, DaaS, WaaS and machine learning.



Supported Modern Applications

Full support for DirectX® 12 Ultimate, Vulkan, DirectX®, OpenGL® and OpenCL™ to accelerate dynamic, cinematic games and feature-rich applications and websites.



Advanced GPU Virtualization Features

SR-IOV-based GPU virtualization provides up to 12 virtual users with dedicated and secure GPU resources offering a cost-effective way to accelerate graphic-intensive applications remotely.

Quick Specs by the numbers

32GB
GDDR6
memory

72
Compute
units

4,608
Stream
processors

128MB
AMD Infinity
Cache

72
Ray
accelerators

2¹
VNC engines

Up to **12**
Virtual users



Key Use Cases for AMD Radeon PRO V620 GPU



Cloud Gaming

Deliver high-performance GPU acceleration required for immersive AAA gaming from the Cloud.



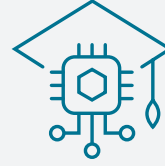
Desktop-as-a-Service

Unleash the benefits of fractional GPUs for modern remote office productivity and collaboration.



Workstation-as-a-Service

Accelerate workstation-class experiences for pro design and visualization applications.



Machine Training

Create and train machine learning models in the cloud with AMD ROCm™ software support*.

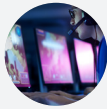


Visual Compute

Process diverse 3D rendering and visualization workloads in the Cloud.



AMD Radeon PRO V620 GPU based solutions designed for a range of Industries



Gaming



Medical



Manufacturing



AEC



Finance



Education



Oil and Gas



AMD Radeon PRO V620 GPU Key Features

Performance

| | |
|-------------------------------|----------|
| GPUs per board | 1 |
| Max GPU VM's per board | 12 |
| Stream processors | 4608 |
| Compute Units | 72 |
| Ray Accelerators | 72 |
| Multi-VF encode | Yes |
| Peak Clock Speed ² | 2,200MHz |
| AMD Infinity Cache | 128mb |

Memory

| | |
|--------------------------|------------|
| Memory Size/Type per GPU | 32GB GDDR6 |
| Memory Bandwidth | 512GB/s |
| Memory Interface | 256-bit |
| Memory Speed | 16 Gbps |

Supported Rendering Format

| | |
|------------------|-----|
| H265/HEVC Encode | Yes |
| 4K H264 Encode | Yes |
| VNC Engine | 2 |

| | |
|------------|--|
| Remoting | Microsoft RDP®, No Machine |
| Guest OS | Microsoft Windows® Server 2019, Ubuntu® 20.04, Linux CentOS 8.3, Linux Red Hat |
| Hypervisor | KVM, Hyper-V |

Board Design

| | |
|------------------------|---|
| Display Connectors | None |
| PCI Express® Interface | PCIe® Gen4 x16 |
| Board Power | Peak board power 300W |
| Power Connector | 2x 8 Pin |
| Form Factor | Passive, 4.4 Full Height, Dual Slot, 10.5" Length |
| API Support | DirectX® 11/12 (Windows), Vulkan®, OpenCL™, OpenGL® |

Contact Your AMD Account Manager for More Information

*Supported on KVM only

1) Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176

2) Boost Clock Frequency is the maximum frequency achievable on the GPU running a bursty workload. Boost clock achievability, frequency, and sustainability will vary based on several factors, including but not limited to: thermal conditions and variation in applications and workloads. GD-151

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