

Overview

AMD Accelerators for HPE ProLiant Servers

Hewlett Packard Enterprise supports, on select HPE ProLiant servers, computational accelerator modules based on AMD® FirePro™ Graphical Processing Unit (GPU) technology.

The following AMD accelerators are available from HPE.

- HPE AMD FirePro S9150 Accelerator Kit
- HPE AMD FirePro S7150x2 Accelerator Kit
- HPE AMD Radeon Pro WX2100 Graphics Accelerator
- HPE AMD Radeon Instinct MI25 Graphics Accelerator
- HPE AMD Radeon Pro WX7100 Accelerator

Based on AMD's Graphics Core Next (GCN) technology, the AMD FirePro GPUs enable seamless integration of accelerated computing and digital rendering with HPE ProLiant servers for high-performance computing and large data center, scale-out deployments.

The AMD GPUs support AMD STREAM technology, a set of GPU hardware and software features designed specifically to address high-performance workloads and workflows, including application requirements for high single and double floating point performance, ECC Memory support for increased computational accuracy, bi-directional low latency data transfers, and more. AMD cards are optimized for OpenCL™, an open and cross-platform programming standard used for general-purpose computations. When combined with the AMD APP Acceleration Software Development Kit and AMD supported development tools such as compilers and libraries, developers and customers can take full advantage of AMD for GPU compute. The AMD cards also support OpenGL and other rendering applications for full graphics processing of complex 3D models.

The AMD accelerators provide all of the standard benefits of GPU computing while enabling maximum reliability and tight integration with system monitoring and management tools such as HPE Insight Cluster Management Utility. The HPE accelerator ecosystem includes HPE Cluster Platform specification and qualification, HPE-supported accelerator-aware cluster software, and also third-party accelerator-aware cluster software for AMD GPUs on HPE ProLiant Servers. In particular, the HPE Insight Cluster Management Utility (CMU) will monitor and display AMD GPU health sensors such as temperature. Insight CMU is integrated with popular schedulers such as Adaptive Moab, Altair PBS Professional, UNIVA Grid Engine and IBM Platform LSF - all of which have the capability of scheduling jobs based on GPU requirements.

Models

AMD Accelerators	HP AMD FirePro S9150 Accelerator Kit	J0H11A
	HPE AMD FirePro S7150x2 Accelerator Kit	M3X68A
	HPE AMD Radeon Pro WX2100 Graphics Accelerator	Q1P47A
	HPE AMD Radeon Instinct MI25 Graphics Accelerator	Q1K38A
	HPE AMD Radeon Pro WX7100 Accelerator	Q1K37A

NOTE: Please see the HPE ProLiant server QuickSpecs for the following servers for configuration rules, including requirements for enablement kits. DL380, DL385, ML30, Micro Server, XL270d, XL190r, XL250a.

Standard Features

AMD FirePro Accelerators

HPE AMD FirePro S9150 GPU

- STREAM processors: 2816 (44 compute units)
- DP (peak): 206 Gflops
- SP (peak): 3.3 TFlops
- Total Dedicated memory: 16GB
- Memory Bandwidth: 320 GB/s
- Power Consumption: 235W TDP

HPE AMD FirePro S7150x2 GPU

- GPUs per card: 2
- STREAM processors: 4096 (2048 per GPU)
- DP (peak): 500 Gflops (250 per GPU)
- SP (peak): 7.54 TFlops (3.77 per GPU)
- Total Dedicated memory: 16GB
- Memory Bandwidth: 256 GB/s
- Power Consumption: 275W TDP

HPE AMD Radeon Pro WX2100 GPU

- STREAM processors: 512 (8 compute units)
- DP (peak): 78.02 Gflops
- SP (peak): 1.25 TFlops
- Total Dedicated memory: 2GB
- Memory Bandwidth: 48 GB/s
- Power Consumption: 35W TDP

HPE AMD Radeon Instinct MI25 GPU

- STREAM processors: 4096
- DP (peak): 768 Gflops
- SP (peak): 12.3 TFlops
- Total Dedicated memory: 16GB
- Memory Bandwidth: 484 GB/s
- Power Consumption: 300W TDP

HPE AMD Radeon Pro WX7100 GPU

- STREAM processors: 2304 (36 compute units)
- DP (peak): 356 Gflops
- SP (peak): 5.73 TFlops
- Total Dedicated memory: 8GB
- Memory Bandwidth:
- Power Consumption: 130W TDP

Supported Operating Systems

Supported Operating Systems

- HPE AMD FirePro S9150 Accelerator Kit
 - Gen9 ProLiant supported servers: RHEL6.x, RHEL7.x, SLES11 SPx,
 - Gen10 ProLiant supported servers: RHEL7.4
- HPE AMD FirePro S7150x2 Accelerator Kit
 - Gen9 ProLiant supported servers: RHEL6.x, VMware ESXi 6.x
 - Gen10 ProLiant supported servers: VMware ESXi 6.x
- HPE AMD Radeon Pro WX2100 Graphics Accelerator
 - Gen9 ProLiant supported servers: RHEL7.x, SLES12 SPx
 - Gen10 ProLiant supported servers: RHEL7.4, Windows Server 2016
- HPE AMD Radeon Instinct MI25 Graphics Accelerator
 - Gen10 ProLiant supported servers: RHEL7.4
- HPE AMD Radeon Pro WX7100 Accelerator
 - Gen10 ProLiant supported servers: RHEL7.4, SLES12 SPx

NOTE: DL385 Gen10 no SLES12 support

NOTE: For HPE ProLiant Gen9 Servers with the Intel Xeon E5-2600v3 does not support RHEL7.x

NOTE: For HPE ProLiant Gen9 Servers with the Intel Xeon E5-2600v4 supports RHEL7.x

Service & Support

Service and Support	<p>HPE Technology Services for Server options</p> <p>HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.</p> <p>Protect your business beyond warranty HPE Pointnext operational services</p> <p>HPE Pointnext operational services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.</p>
Get connected to Hewlett Packard Enterprise to improve your support experience	<p>Connecting products to Hewlett Packard Enterprise will help prevent problems with 24x7 monitoring, pre-failure alerts, automatic call logging, and parts dispatch. With Connected products, you can have a dashboard to manage your IT anywhere, anytime, from any device</p>
HPE Support Center	<p>Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc</p>
Parts and materials	<p>Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.</p> <p>Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.</p> <p>The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.</p>
For more information	<p>To learn more about HPE Pointnext operational services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized ServiceOne Channel Partner. Or visit: http://www.hp.com/services/proliant or http://www.hp.com/services/bladesystem</p>

Summary of Changes

Date	Version History	Action	Description of Change
2-Apr-2018	Version 8	Changed	Update to all sections; Added WX7100
4-Dec-2017	From version 6 to 7	Updated	Add Accelerator SKU
23-Oct-2017	From version 5 to 6	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
25-Sept-2017	From version 4 to 5	Updated	Update all the sections and general info throughout the QuickSpecs
15-Aug-2016	From version 3 to 4	Updated	Update all the sections and general info throughout the QuickSpecs, added FirePro S7150x2
31-Mar-2016	From version 2 to 3	Updated	Update all the sections and general info throughout the QuickSpecs
03-Feb-2015	From version 1 to 2	Modified	Add information about FirePro W7100
09-Sept-2014	Version 1	Created	Create the QuickSpecs for the AMD FirePro Accelerators for HPE ProLiant Servers



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c04447905 - 15097 - Worldwide - V8 - 2-April-2018