Teradici Accelerator APEX 2800 MXM PCoIP Hardware Accelerator

The only product of its kind, the Teradici PCoIP Hardware Accelerator enhances VMware Horizon® performance. By dynamically offloading the´most active displays, the card reduces CPU peaks to provide a consistent user experience at all times. When coupled with a GPU, the PCoIP Hardware Accelerator efficiently encodes the extra pixels generated by the GPU, delivering higher frames per second, hence ensuring the benefits of the local GPU are carried over to the end-point.

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Consistent user experience
- Ensures the success of your VMware Horizon deployment by protecting the user experience
- Allows for a dramatically better application experience – no more choppy videos

Better performance with GPU
- Complements GPU deployments in VMware Horizon
- Enables the delivery of higher frames per second (FPS) to the end-point

Greater consolidation ratio
- Reduces server CPU utilization by up to 50% with graphically intensive workloads, enabling up to 2x more density
- Adds virtual CPU headroom to any VDI implementation; without having to overprovision your system
- Reduces CPU variance as loads change by dynamically offloading up to 100 of the most active displays

Simple to set up and install
- Install drivers and enable hardware acceleration within VMware Horizon Administrator
- Compatible with all existing PCoIP Zero Clients and VMware Horizon clients
- Works seamlessly with VMware ESXi 5.0 or later and VMware Horizon 5.0 or later

How PCoIP Hardware Accelerator works
By constantly monitoring the graphic encoding demands of all the displays rendered on the server, the PCoIP Hardware Accelerator determines – in real-time – the most active displays. Next, the card dynamically offloads the most demanding image encoding tasks from the CPU to the PCoIP Hardware Accelerator.

PCoIP Hardware Accelerator complements GPU deployments
With the rise in pixels generated by the GPU, the software encoder will consume more vCPUs cycles and quickly reach its maximum encoding speed. The PCoIP Soft Encoder may even reach its limit, minimizing the number of frames per second going to the PCoIP compatible end-point. With the PCoIP Hardware Accelerator, these restrictions are pushed out significantly, while maintainingthe current vCPU count, resulting in the best possible user experience. In performance tests compared to the soft encoder, the card increased the framerate by up to 50% when viewing Google Earth.*

The PCoIP Hardware Accelerator is fully compatible with any GPU including NVIDIA's vGPU technology, supported on VMware Horizon deployments.

Irrtum und technische Änderungen, die dem Fortschritt oder der Weiterentwicklung des Produktes dienen vorbehalten.

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Specification

Model	LP PCIe card	Mazzanine for HP Blade G8 / G9
Manufacturer´s P/N	SA2800004	SA2800300
Format	Half hight, half length PCIe x4 Gen2.0	MXM Type A
System requirements	PCIe slot x4, x8, x16 ESX 4.1 U1/U2 oder höher VMware Horizon View 4.6 und höher Up to 2 cards per server	HP Prolinat Gen8 / Gen9 blade ESX 4.1 U1/U2 oder höher VMware Horizon View 4.6 und höher Up to 2 cards per server
Memory	2 GB of onboard DDR3 SDRAM with ECC protection	
Display support	Resolution Portrait Landscape 2560x1600 25 40 1920x1200 40 64 1680x1050 50 85 1280x1024 100 100	
Power	Power supplied to card via PCIe interface: 15 Watt	
Regularity	Safety: UL/cUL EMC: FCC Class B, Canada ICES, Class B, CE, VCCI, C-TICK Environment: WEEE, RoHS	

Environmental	Temperature: Humidity:
	
	  Operational 0° C to 55° C Relative (non-condensing): 10% to 90%
	
	  Storage -20° C to 70° C Storage: 5% to 95%	

Thermal cooling	Single slot passive heat sink	

Windows Desktop VM (VMware Horizon View)

VM OS and Applications | Host Rendered Display | VMW pixel buffer | PCoIP Soft Encoder

Send encoded pixels only to clients

ESXi Hypervisor

GPU Pass-Through or Shared GPU | HW Accelerator Drivers

Hardware

······▶ GPU rendered pixels
······▶ Plus Hardware Accelerator

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