High Performance PCoIP® Remote Workstation Solutions

High Performance Blade-Based and Rackmount Solutions Delivering Rich Desktop Experiences over IP

Cirrascale® introduces its newest line of high performance blade-based remote workstations utilizing PC-over-IP® (PCoIP) technology from Teradici®. This revolutionary technology in display compression, when tied with Cirrascale's high performance GPGPU workstation blades or rackmount systems, delivers breakthrough results for connecting desktops over existing, standard IP networks. PCoIP technology allows all enterprise desktops, from task workers to power users, to be centrally located and managed in the data center, while providing the remote user with an exceptional user experience.

Teradici's powerful host processors enable users of Cirrascale's High Performance Workstations (HPW) to move Windows or Linux workstations into the data center and connect with a PCoIP zero client remotely without impacting application performance. Created for IT managers who are looking for a secure, reliable and easy-to-manage solution, Cirrascale's High Performance Workstations also meet the needs of designers who have dedicated computers with graphically demanding applications and expect the highest in performance.

With the Tera2 host processor family, Teradici has raised the bar on security and performance. Advanced security features include AES-256 and NSA Suite B security protocols suitable for top secret classification. Maximum performance of 250 mega pixels per second (Mpps) enable full screen resolutions of up to 2560x1600 with dual-monitors or 1920x1200 with quad-monitors. Additionally, application refresh rates up to 60 frames per second (fps) ensures the best remote user experience possible.

Cirrascale HPW solutions, utilizing Teradici PCoIP technology, provide an uncompromised desktop experience that makes centralized enterprise computing truly viable for both PC-based knowledge workers and workstation power users, either locally via LAN or remotely via WAN – while maintaining the highest form of data security.

Whether your IT group supports a large trading floor, a command and control center, a call center, or a large number of design engineers, replacing the workstation (or sometimes multiple workstations) from the desk to the data center will provide your users with a clean and noise free environment. In addition, the security of physical and data assets is increased while the management of desktops is improved. Complex workstation moves, adds and changes become as simple as a mouse click.

About Cirrascale®

Cirrascale Corporation is a premier provider of blade-based GPGPU, cloud computing and storage infrastructure for conventional and containerized data centers. Cirrascale leverages its patented Vertical Cooling Technology to provide the industry's most energy-efficient standards-based platforms with the lowest possible total cost of ownership in the densest form factor. Cirrascale sells to large-scale infrastructure operators, hosting and managed services providers, Cloud Service Providers, and HPC users. Cirrascale also licenses its award winning technology to partners globally.

Contact Us Today

To learn more about Cirrascale and its unique data center infrastructure solutions, please visit us on our website at www.cirrascale.com or contact one of our Account Managers by calling (888) 942-3800.

High Performance PCoIP® Remote Workstation Blade

High Performance PCoIP® Zero Client Specifications

Cirrascale utilizes PCoIP zero clients from partners, such as LeadTek, allowing your organization to take full advantage of the many benefits promised by virtualization. PCoIP zero clients are hardware based endpoints that use a highly integrated, purpose-built processor to perform image decompression and decoding. PCoIP zero clients do not have a general purpose CPU, local data storage or application operating systems, resulting in ultra-secure and easy to manage clients that do not require regular updates or patches.

	Tera2140 Zero Client	Tera2321 Zero Client
Max Number of Displays	4	2
Teradici Processor	Tera2140 (Tera2)	Tera2321 (Tera2)
Common Form Factors	Standalone, Integrated Monitor, Touch Screens, IP Phone, PoE Devices	
Imaging Performance	50 Mpps (VDI) 250 Mpps (WS)*	50 Mpps (VDI) 130 Mpps (WS)*
Max Resolution	2x 2560x1600 4x 1920x1200	1x 2560x1600 2x 1920x1200
Video Output Configurations	4x DVI-D 2x DVI-DL with adapters 4x DP	2x DP 1x DVI-I + 1x DVI-D 1x DVI-DL with adapter 1x DVI-I + 1x DP
Ethernet	10/100/GigE or optional fiber	
USB	4x USB 2.0	4x USB 2.0
Audio	Full 16-bit stereo, 48KHz sample rate, Audio out plus Headphone out, Mic In	
Power Management	Full wake on LAN and wake on USB	Full wake on LAN and wake on USB
Typical System Power	12W	6W
Memory	512MB DDR3	512MB DDR3
Encryption	AES-128/AES-256 Suite B Ciphers (WS)	AES-128/AES-256 Suite B Ciphers (WS)

Cirrascale High Performance PCoIP® Remote Workstation Offerings

Cirrascale integrates its award-winning blade-based high performance workstation blades and rackmount offerings with the new Tera2 host processor family to create the most secure, reliable and easy-to-manage PCoIP solution for its customers. Below are some of the standard PCoIP-enabled offerings available from Cirrascale.

	GPGPU High Performance Workstation Blades			GPGPU High Performance Rackmount Solution
	GB1625	**GB1625M**	**GB1635M**	**RM1630DX (2-in-1)**
Processor	Intel® Xeon® Processor E3-1200 v3 family	Intel® Xeon® Processor E3-1200 v3 family	4th Generation Intel® Core® Processor family & Intel® Xeon® Processor E3-1200 v3 family	4th Generation Intel® Core® Processor family & Intel® Xeon® Processor E3-1200 v3 family
Memory	Up to 32GB (1600MHz)	Up to 32GB (1600MHz)	Up to 32GB (1600MHz)	Up to 16GB per node (1600MHz)
Storage	Up to 8TB	Up to 8TB	Up to 4TB	Up to 8TB per node
Networking	Dual Intel® Gigabit LAN	Dual Intel® Gigabit LAN	Intel® Gigabit LAN	Gigabit LAN
Graphics	Supports High-End Graphics Cards	Supports High-End Graphics Cards	Supports High-End Graphics Cards	Supports NVIDIA Quadro, NVIDIA GeForce GTX and AMD FirePro R5000
Expansion Slots	One PCI-E 2.0 x4 One PCI-E 3.0 x16 (configurations limited)	One PCI-E 2.0 x4 One PCI-E 3.0 x16 (configurations limited)	One PCI One PCI-E 3.0 x1 One PCI-E 3.0 x4 One PCI-E 3.0 x16 (configurations limited)	One PCI-E 3.0 x16 One MSMP slot (configurations limited)

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