



CLEARCUBE

ClearCube V5420 & V5440 PCoIP Video Host Card

High-Performance Remote Video from Secure Hosts to Secure Clients

ClearCube® V5420 and V5440 PCoIP® Host Cards deliver stunning high definition dual- and quad-monitor video performance. The V5400-series host cards use powerful Teradici® PCoIP processors for intelligent video, audio, and USB delivery—secure and encrypted—from remote servers, workstations, and PCs to remote client devices. You can now provision your existing compute resources with the high-performance video card that is standard in ClearCube Blades and Workstations.

ClearCube integrates V5440 in A-Series, M-Series, and R-Series Blades and Workstations to deliver full 1920 × 1200 resolution on up to four monitors, or 2560 × 1600 resolution on up to two monitors. ClearCube Blades and Workstations are purpose-built for V5420 and V5440 Host Cards with mounting, cooling, and cable connections designed to optimize space and minimize deployment effort.

For installation in third-party PCs and workstations, V5400-series Host Cards require only a free ×1 PCIe slot, a video card (GPU), or a system with integrated graphics and video out (DP®, MiniDP, HDMI®, or DVI port).

Move the Desktop to the Datacenter for Improved Security and Reliability

When connecting to a ClearCube Zero Client or PCoIP Software Client at an end user's location, V5420/V5440 Host Cards have no distance limitation between the host computing resource and the zero client at the end-user's desk. PCoIP Host Cards enable IT organizations to centralize physical hardware and data resources in secure datacenters for multiple security and management benefits:

Benefits



PCoIP Host Cards do not send data—only encrypted screen pixels—to further protect the IP that remains in the data center



Remote connectivity eliminates the distribution and duplication of data to remote locations



Using Host Cards with PCoIP zero clients mean no local storage or application OS at users' desks



Data center deployments increase system uptime



Centralization increases power and cooling efficiency



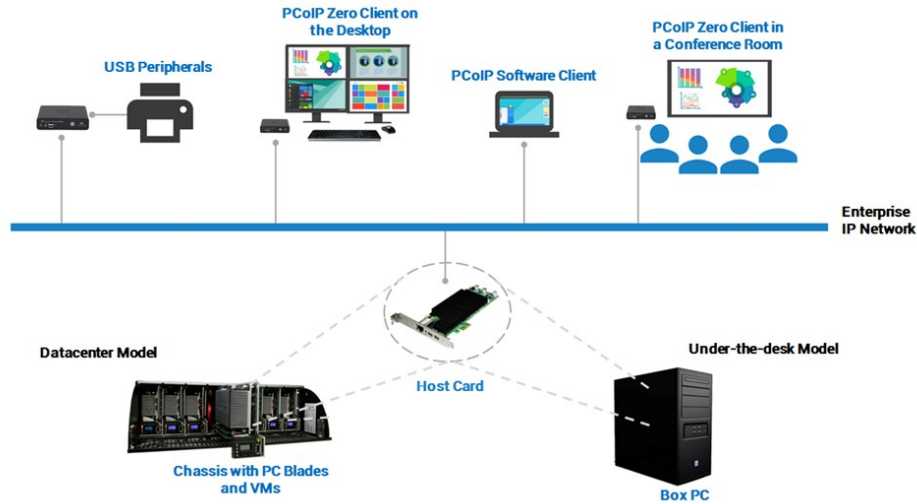
Highly customizable mass storage lockout available from zero client devices

The Perfect Complement to Your VMware Horizon Environment

Desktop Virtualization Infrastructure (VDI) helps you achieve efficient allocation of computing resources for task and knowledge workers in the enterprise. However, when fulfilling power user requirements, VDI can fall short. For intensive graphics processing you need a dedicated centralized workstation with graphics capability to enable end-user productivity. V5420/V5440 Host Cards are a perfect fit. Use your existing high-performance GPU and simply equip your designated system with the ClearCube V5420/V5440. Deploy a ClearCube Zero Client at the end-user's location to achieve dedicated computing and graphics processing power with all the centralized benefits of VDI. In addition, VMware® Horizon can broker the connection between the ClearCube Zero Client and the V5420/V5440 host system for desktop connection flexibility.



A Logical Overview of a Zero Client and Host Card Using PCoIP Technology



Host Cards Specifications Table

Model	V5442	V5422
Max Number of Displays	4	2
Processor	TERA2240	TERA2220
Form Factor	ATX	Low Profile
Board Physical Dimensions	4.376 inches (height) × 6.6 inches (length), single slot	2.713 inches (height) × 6.6 inches (length), single slot
Bus Type	PCI Express ×1 (compatible with any PCIe slots: ×1, ×4, ×8, ×16)	
Imaging Performance	250 Mpps	130 Mpps
Maximum Resolution	Two 2560x1600 or Four 1920x1200	One 2560x1600 or Two 1920x1200
Max Application Frame Rate (with PCoIP Zero clients)	60 fps	60 fps
PCIe Video Ports (connect to Graphics outputs)	Four mini-DisplayPort	Two mini-DisplayPort
Memory Type	512 MB DDR3 with ECC	
Typical Board Power	13W	13W
Encryption	AES-128/AES-256 Suite B Ciphers (Workstation)	
Recommended Zero Client	TERA2140	TERA2321 or TERA2140
Endpoints for Full Functionality	Connectors	
Connectors	Four mini-DisplayPort connectors Ethernet connector or Fiber connector Power Button Cable connector (optional for Remote Power Management)	Two mini-DisplayPort connectors Ethernet connector or Fiber connector Power Button Cable connector (optional for Remote Power Management)
Thermal Cooling Solution	Thermal Cooling Solution	
Operating System Support	Completely operating system independent	
System Requirements	PCI Express compliant motherboard with one x1/x4/x8/x16 slot (Full height for V5420 and full/half height for V5420) PC/workstation with 1 or 2 graphics cards For 2560x1600 resolution, graphics card port must be DisplayPort (dual-link DVI is not supported) 10/100/1000 Mbps Ethernet LAN or 100/1000 Mbps Fiber switch/router	
Package Contents	PCoIP host card V5440 One to four DVI to mini-DisplayPort cables One to four DisplayPort to mini-DisplayPort cables One to four mini-DisplayPort to mini-DisplayPort cables Ethernet cable × 1 (Optional) Power Button cable × 1 (optional for Remote Power Management) Quick installation guide —	PCoIP host card V5420 One or two DVI to mini-DisplayPort cables One or two DisplayPort to mini-DisplayPort cables One or two mini-DisplayPort to mini-DisplayPort cables Ethernet cable × 1 (Optional) Power Button cable × 1 (optional for Remote Power Management) Additional Low Profile bracket × 1 Quick installation guide
Protocol Options	Supports VMware Horizon with PCoIP, HP Anyware, and PCoIP remote workstation cards	Supports VMware Horizon with PCoIP, HP Anyware, and PCoIP remote workstation cards

Ordering Information

Call: (866) 652-3500 Email: sales@clearcube.com to order or for more information.

Model No.	Part Number	Part Description
V5422	G0900255	Dual Remote Host Kit
V5442	G0900256	Quad Remote Host Kit