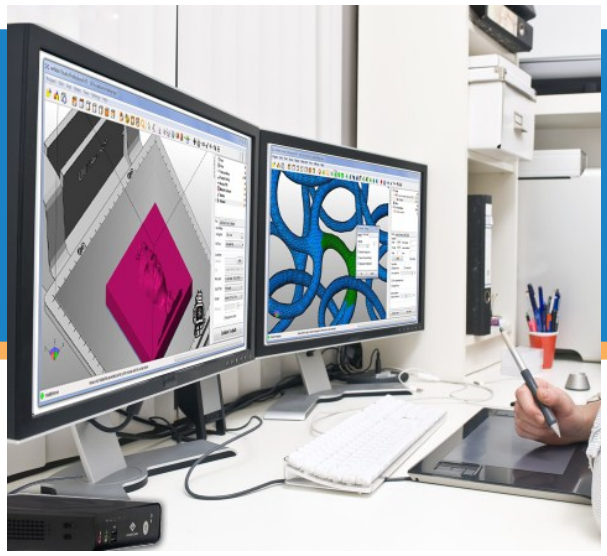
# ClearCube® for CAD/CAM/CAE/GIS & 3D professionals' applications.

## High-Performance, Secure Remote Access Engineering Workstations and Zero Clients



Technology enhancements by ClearCube address key issues for professional engineers and designers who use CAD/CAM/3D/Simulation and Geospatial applications that demand full graphics capabilities. These advancements provide incredible performance experience from secure zero clients connected to remote access engineering workstations located in remote datacenters.

### Remote processing with fast local display performance

Designers and engineers need instantaneous graphics performance with no processing delays. ClearCube Engineering Solutions deliver 60 frames per second (300 megapixels per second) to dual 2560x1600 displays from rack mount Blade PCs/Workstations with no compromises in performance over distance.

Our Blade PCs have the same feeds and speeds as traditional desktop workstations, but with form factor changes that provide high rack density, better manageability and integrated PCoIP host adapters for high speed connection to zero client devices. A6106D Blade PCs support single slot NVIDIA K2000 and K4000 GPUs.

For more complex workloads, M1022W dual 8-core Xeon workstations support dual slot GPUs such as the highest performing NVIDIA Quadro K6000 and K5000 adapters along with integrated PCoIP host compression adapters. Even though all the CPU/GPU processing is datacenter host-rendered, engineers/designers/analysts will think their workstation processing engines are still under their desks because the performance will be the same, but they'll wonder where the noise, heat, and cable clutter went.

Another benefit is application compatibility. The PCoIP protocol, which just sends pixel changes and re-directed USB signals from the host-rendered source, is certified with numerous workstation ISVs including Dassault Systemes (CATIA, Solidworks), Autodesk (3ds Max, Softimage), Siemens-UGS (NX, Solid Edge), Schlumberger (Petrel, GeoFrame), etc.

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Engineering Group

technicolor

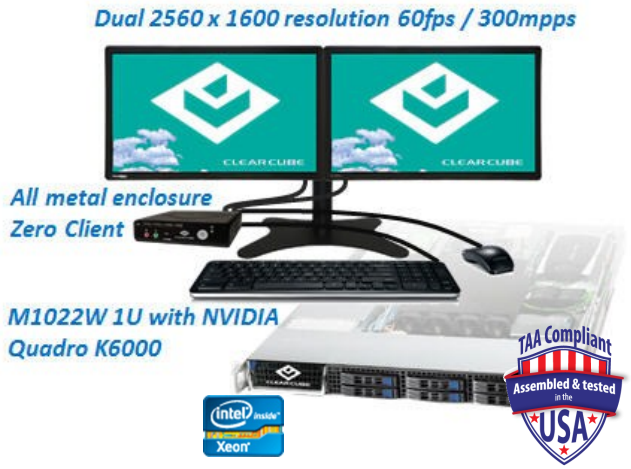
PAE

PCoIP CONNECTED

vmware READY CERTIFIED

## Unparalleled data security

Engineering companies want to ensure their intellectual property is secure. They want no data to reside at the desktop on hard drives. You cannot provide this capability with standard PCs where data resides on local hard drives for GPU rendering. With ClearCube centralized desktop infrastructure, (CDI) you can remove all data from the desktop area. Zero clients are stateless devices with no operating system, no memory, and no storage. All data resides in the secure datacenter on Blade PCs or Engineering Workstations. No data travels across the IP connection -- only pixel change updates are sent to the displays.




## Solving the last mile network problem

CAD collaboration often involves transferring huge files to the end point PCs for processing. With distributed PCs, the 1Gb Ethernet network is the choke point for large file transfers. One costly remedy is to replace 1GbE cabling with 10Gb Ethernet infrastructure out to the desktops to speed file transfer. The better alternative is to leave the existing 1Gb Ethernet in place, and expand network bandwidth for the very short distance between the M1022W workstations and the 10Gb Ethernet switch in the datacenter. This can only be accomplished if the workstations are in the datacenter near the switch, allowing huge file transfers to travel only short distances. This workstation/network switch proximity can be accomplished using M1022W workstations with 10Gb Ethernet adapters, saving you massive infrastructure cabling costs. Only pixel changes are sent between the M1022W and the zero client to which it is connected. The bandwidth requirement from the datacenter host computer to the engineering desktop is minimal.

## Business continuity

CAD/CAM engineers and geospatial analysts need to be happy and busy creating new designs and processing enormous amounts of data. The disruption of work is costly and unacceptable. If a traditional PC fails, restoration of service is time and labor-consuming, with negative ramifications for engineers on scheduled deliveries to their teams.

Centrally located and managed Blade PCs have higher uptimes than standard PCs, and restoration of service is much quicker. If a user's primary Blade PC experiences downtime, the user can be switched to a spare Blade PC dynamically to immediately restore service and business continuity. ClearCube management software provides a summary snapshot of how the environment is performing. If a user loses his session due to network or device failure, multiple administrators are notified via visual and email alerts. Management of centralized resources is easier than trying to manage distributed PCs on a network. It's easier to access equipment in racks, easier to troubleshoot issues, and easier to add software and services. The results are increased productivity and reduced operating costs.


For more information, or to order please contact ClearCube Sales at 866-652-3500 or sales@clearcube.com.