

High Performance Medical Imaging Technology

Revolutionizing Healthcare with PCoIP High Performance Workstations for Medical Imaging

Medical imaging technology has revolutionized healthcare over the past several decades, allowing doctors to find disease earlier and improve patient outcomes. The New England Journal of Medicine ranked imaging as one of the top medical developments over the last millennium. From physicians and patients to professional organizations and peer-reviewed journals, those who have evaluated and experienced medical imaging know its immense benefits. Extending this vision into the very nature of disease, medical imaging enables a new and more powerful generation of diagnosis and intervention. Melding these advances with the power of digital and information technology fosters greater efficiency, quality and value in healthcare.

Healthcare IT managers realize that deploying, maintaining and securing expensive graphic workstations can be a costly, difficult and time consuming task. Cirrascale® has developed a remote High Performance Workstation medical imaging solution to address this specific need. By consolidating these workstations in a secure area and providing high resolution, perception-free access with stateless client devices, Cirrascale provides one of the most cost effective, reliable and secure solutions on the market today. These zero clients are hardware based endpoints that have no general purpose CPU, local data storage or application operating system. They are unusable by themselves and contain no patient data making them secure on multiple levels.

The Cirrascale Modular Blade Chassis (MBC) is a 19" rack mountable platform that contains nine High Performance Workstation blades. Utilizing the latest PCoIP technology from Teradici, these workstations can be placed in a datacenter, server room or just about anywhere there is room for 19" rack. Able to tolerate higher temperatures than a typical cold room datacenter, these blades are a perfect solution for consolidating desktop workstations in a single manageable location.

Increased security is achieved by not having expensive workstations scattered around a building. When a user experiences a problem, the IT department doesn't have to replace the workstation at that user's desk, but instead they can press the reset button on the zero client or software client running on a notebook or tablet and connect to a spare workstation. Workstation blades are easy to replace in the MBC, and if repairs or replacements are needed, they can be easily handled by any IT staff member.

Each blade in the MBC is a top of the line high performance workstation utilizing the latest processors and boards from leading technology vendors such as Intel®. When paired with an NVIDIA® Quadro® Professional Graphics card these workstations are able

Features at a Glance

- Consolidate workstations in a secure location.
- Provides high resolution medical imaging.
- Perception-free access to remote workstation blades with stateless client devices.
- Zero clients are hardware with no CPU, local data storage, application, or operating system making them secure for hospital environments.
- Utilizes Industry Leading Patented Vertical Cooling Technology™



 PCoIP™

to connect to the latest NEC Medical Review Displays with full medical imaging calibration support.

At the users work areas, the desktop zero client, USB keyboard and mouse, and high resolution NEC Displays are remotely connected over the network to the High Performance Workstations. The MBC can support up to nine concurrent sessions. Additional zero clients can be deployed around the hospital in operating rooms, offices, and nurse stations. To avoid contention in connecting to the high performance workstations it is recommended that a connection broker be used. This is an application that runs on any Microsoft® Windows Server and keeps an accurate inventory of host High Performance Workstations and zero clients.

Cirrascale provides one of the most cost effective, reliable and secure solutions on the market today for medical imaging. Our account managers are available to discuss your organizations needs in this area. We work with our clients to ensure they receive the best support and service to meet their organizations goals.

Modular Blade Chassis Platform Specifications

Below are the generalized specifications for the Cirrascale Modular Blade Chassis for the High Performance Medical Imaging Workstation appliance.

	High Performance Workstation MBC-XM
MBC Total Blade Capacity	9 Blades
MBC Units per Standard Rack	4 Modular Blade Chassis
MBC Cooling Technology	Patented Vertical Cooling
Individual Blade Processor	Intel® Core® i7-4770 3.4GHz 4th Generation Intel® Core® processor
Individual Blade Memory	16GB DDR3-1600MHz RAM
Individual Blade Hard Drive	250GB Hard Drive
High Performance Video Card	NVIDIA® Quadro® 2000D
High Performance Host Card	TERA2220 Teradici® PCoIP Host Card
MBC Dimensions	Height: 578 mm (22.75 in.) Width: 609 mm (24.0 in.) Depth: 914 mm (36.0 in.)
MBC Max Weight	136.1kg (300 lbs.)
MBC Power System	Auto-Sensing 208V - 240V, 50/60Hz, 20A Power Input High-Efficiency: In Excess of 85% at 208VAC Input

About Cirrascale

Cirrascale Corporation is a premier provider of blade-based GP/GPU, 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.



**The Cirrascale MBC-XM
Modular Blade Chassis**

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