



## CoreStation DXM630

PowerEdge M630 blade upgrade kits



CoreStation® DXM630  
Blade Workstation

Datasheet

Extreme workstation performance in less than 1U of rack space

### Blades for secure anywhere access

The Amulet Hotkey CoreStation DXM630 packs extreme workstation performance in a data center optimized platform. Key reasons to centralize your workstations:

- protect sensitive data and valuable intellectual property in the data center;
- deliver mobility without compromising performance;
- boost productivity and team collaboration.

### Data center optimized for scalability and reliability

The CoreStation DXM630 is based on the Dell EMC PowerEdge M630 blade server with a Dell EMC workstation BIOS and Amulet Hotkey remote workstation graphics cards to deliver superior scalability, reliability and performance.

- **Extreme density:** DXM630 delivers a dual CPU and Pro GPU workstation in only 0.6U of rack space to minimize data center footprint
- **Increase uptime:** redundant power and network and a controlled environment improve availability and hardware lifespan. Easily failover users without even visiting the desk
- **Simplify management:** Dell EMC OpenManage and automation to realize the agility and scalability of a centralized workstation infrastructure

### Dedicated power and performance

Deliver dedicated performance with powerful processors, graphics and large memory to handle large datasets and demanding workloads.

- **Fast cores:** up to two 22 core processors and up to 3.5GHz base to 3.7GHz boost core speeds for compute intensive workloads
- **GPU acceleration:** NVIDIA Quadro or AMD FirePro professional GPUs for graphics and compute acceleration performance
- **Remote display protocol acceleration:** Teradici PCoIP processor for an exceptional and responsive workstation experience

### Key Features

- Secure anywhere, anytime access to a performance workstation
- Data center optimized to minimize space, power and network footprint
- Powerful performance using Intel Xeon one E5-1650 or up to two E5-2600 processors
- NVIDIA and AMD professional GPUs including high-end GPUs, such as the NVIDIA Quadro P5000
- Windows and Linux OS options
- Support up to four displays with options for up to eight displays

### Remote access

- Remote connections can be local, across country or continent-to-continent
- Workstation BIOS access / control and full power control from the zero client
- Hardware PCoIP encoding for exceptional performance including real-time video and demanding 3D graphics
- Remote display protocol options for Teradici PCoIP, VMware Blast, Citrix HDX and Mechdyne TGX
- Support for Amulet Hotkey zero clients, DX multi-protocol clients and options for software/mobile clients

### Security and reliability

- Only display pixels, USB and audio are sent from the workstation to the client, to keep sensitive apps/data in the secure data center
- Extensive security features with 256-bit AES encryption, smartcard, SIPR tokens and more

**Need to virtualize your workstation?**

See Amulet Hotkey's [CoreStation V series solutions](#)

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## Related Products



[DXZ4 Zero Client](#)

Secure access device

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## CoreStation DXM630 Blade Workstation Specifications

Form factor	Half height blade for Dell PowerEdge® M1000e enclosure Up to 16 DXM630 blades per 10U enclosure	
Processors	Up to two Intel® Xeon™ E5 2600 (v4) up to 3.5GHz, up to 55MB cache and up to 22 cores/44 threads per processor	One Intel Xeon E5-1650 (v4) processor 6 cores/12 threads, 3.6 GHz base/4.0 GHz turbo, 15MB cache
Operating Systems	<b>Microsoft Windows 10 (64-bit):</b> Professional for Workstations <b>Microsoft Windows 7 (64-bit):</b> Professional and Enterprise <b>Linux:</b> Ubuntu Linux 16; Red Hat Enterprise Linux (RHEL) 7.1 or later (64-bit); CentOS Linux 6.6; Novel SUSE Linux Enterprise Desktop 11 SP4	
Memory	Up to 1.5TB ECC Registered DDR4 (24 DIMM slots): RDIMM/LRDIMM speeds up to 2400MT/s	
Chipset	Intel® C610 series	
Drive bays	Up to 2x 2.5" SAS/SATA (HDD/SSD), or 4x 1.8" SAS/SATA (HDD/SSD)	
Storage Controllers	PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P controllers. Internal Dual SD Module (IDSDM)	
Network	4x 10GE, 2x 10GE, 4x 1GE or 2x 1GE NDC in Fabric A	
Expansion slots	Two slots, Mezzanine slot B and Mezzanine slot C (for Fabric B and C): Options for DXM Remote Workstation Graphics Cards, storage and networking cards	
USB	1x USB 2.0 port, 1x USB 2.0 MicroAB port with iDRAC management function	
Security	Options for TPM, Secure Boot, system intrusion switch	
Embedded / at-blade management	iDRAC8 Express or Enterprise with Lifecycle Controller, Chassis Management Controller, IPMI 2.0 compliant, at-blade LCD screen and local blade KVM access.	

## Amulet Hotkey DXM KVM Extender / Remote Workstation Graphics Card Upgrade Kits

Card type	A multi-function PCIe controller supporting Graphics, HD Audio, and USB host controller for remoting displays, USB and audio
Bus type	Single-slot and dual-slot mezzanine cards that fit in Mezzanine slot B or C. (Other mezzanine slot must remain empty when using a dual-slot card)
Processor	Teradici TERA2240 PCoIP processor (one per DXM mezz card)
Graphics	See GPU options below (one per mezz card)
Display Resolutions	One single-slot or dual-slot card: <ul style="list-style-type: none"> <li>Up to dual 2560 x 1600 or up to quad 1920 x 1200</li> </ul> Two single-slot cards: <ul style="list-style-type: none"> <li>Up to quad 2560 x 1600 or up to octal 1920 x 1200</li> </ul>
Network	1GbE port provided by M1000e I/O module (Fabric B or C)
Encryption	256-bit or 128-bit AES, NSA Suite B ciphers
USB	Remote USB ports provided by client endpoint
Client compatibility	<b>Hardware zero clients:</b> Amulet Hotkey DXZ clients or DXMP multi-protocol client <b>Software clients:</b> VMware Horizon, Citrix Receiver, Teradici PCoIP and TGX Receiver

## DXM Upgrade Kit Graphics Card Options<sup>1</sup>

Model	GPU	Memory	Memory BW	Cores	Card Type
DXM-P5000	NVIDIA Quadro P5000	16GB GDDR5	192 Gbps	2048	Dual slot
DXM-S7100X	AMD FirePro S7100X <sup>2</sup>	8GB GDDR5	160 Gbps	2048	Dual slot
DXM-M2200	NVIDIA Quadro M2200	4GB GDDR5	106 Gbps	1024	Single slot
DXM-S4000X	AMD FirePro S4000X	2GB DDR5	72 Gbps	640	Single slot

<sup>1</sup>- Includes Amulet Hotkey BIOS, customized by Dell EMC, to support client operating systems.

<sup>2</sup>- Contact us for more details.

**Anywhere, anytime access to powerful workstation graphics!**