



CoreStation® WM640 Blade Workstation Datasheet

Extreme workstation performance in less than 1U of rack space

Blades for secure anywhere access

The Amulet Hotkey CoreStation WM640 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 WM640 is based on the Dell EMC PowerEdge M640 blade server with a Dell EMC workstation BIOS and Amulet Hotkey remote workstation graphics cards to deliver superior scalability, reliability and performance.

- **Extreme density:** WM640 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.

- **More cores:** up to 56 cores per blade for compute intensive workloads
- **Fast speeds:** up to 3.6 GHz base to 4.2 GHz boost core speeds for single-threaded task performance. Memory speeds up to 2666 MHz
- **AVX-512:** for faster simulation, modeling and rendering tasks
- **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
- Extreme workstation performance using up to two Intel Xeon Scalable 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, 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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CoreStation WM640 Blade Workstation Specifications

Form factor	Half height blade for Dell PowerEdge® M1000e enclosure Up to 16 WM640 blades per 10U enclosure
Processors	Intel® Xeon® Scalable processors, up to 3.6GHz, up to 28C/56T, up to 38M cache. 1x CPU up to 205W or 2x CPU up to 165W each
Operating Systems	Microsoft Windows 10 (64-bit): Professional and Enterprise Microsoft Windows 7 (64-bit): Professional and Enterprise Linux: Ubuntu Linux 16, Red Hat Enterprise Linux (RHEL) 7.1 or later (64-bit) CentOS Linux 6.6 and Novell SUSE Linux Enterprise Desktop 11 SP4
Memory	Up to 2TB ECC Registered DDR4 (16 DIMM slots): RDIMM/LRDIMM speeds up to 2666MT/s
Chipset	Intel® C620 series
Drive bays	Up to 2x 2.5" SAS/SATA (HDD/SSD), or NVMe SSD, max 12.8TB
Storage Controllers	Software RAID S140, PERC9 H330, PERC H730P controllers Internal Dual SD Module (IDSDM) or M.2 for Boot Optimized Storage System (BOSS)
Network	4x 10GE, 2x 10GE, or 4x 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 3.0 port, 1x USB 2.0 MicroAB port with iDRAC management function
Security	TPM 1.2/2.0 option, Cryptographically signed firmware, Hardware Root of Trust, Secure Boot, System Lockdown/Erase
Embedded / at-blade management	iDRAC9 Express or Enterprise with Lifecycle Controller, Chassis Management Controller (CMC), IPMI 2.0 compliant, Redfish compliant, at-blade LCD screen and local blade KVM access

Amulet Hotkey DXM Remote Workstation Graphics Cards

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"> Up to dual 2560 x 1600 or up to quad 1920 x 1200 Two single-slot cards: <ul style="list-style-type: none"> Up to quad 2560 x 1600 or up to octal 1920 x 1200
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	Hardware zero clients: Amulet Hotkey DXZ clients Software clients: VMware Horizon, Citrix Receiver, Teradici PCoIP and TGX Receiver

PCoIP Remote Workstation Graphics Card Options

Model	GPU	Memory	Memory BW	Cores	Card Type
DXM-P5000	NVIDIA Quadro P5000	16GB GDDR5	192 Gbps	2048	Dual slot
DXM-M3000SE	NVIDIA Quadro M3000SE	4GB GDDR5	160 Gbps	1024	Dual slot
DXM-S7100X	AMD FirePro S7100X	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 GDDR5	72 Gbps	640	Single slot

Anywhere, anytime access to powerful workstation graphics!