



 **AMULET  
HOTKEY**  
**CoreStation® WFC640**  
Virtual Blade Workstation  
**Datasheet**

Extreme workstation performance in only 0.5U of rack space for best-in-class density

### Blades for secure anywhere access

The Amulet Hotkey CoreStation WFC640 packs true workstation performance in a data center optimized platform. Centralize your workstations to;

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

### Data center optimized, outstanding scalability and efficiency

The CoreStation WFC640 is based on the Dell EMC PowerEdge FC640 blade server, with a Dell EMC workstation BIOS and Amulet Hotkey Remote Workstation card to deliver superior scalability, reliability and performance.

- **Extreme density:** WFC640 delivers a dual-socket and Pro GPU workstation in only 0.5U of rack space to minimize data center footprint. Fit up to 4 performance workstations in the 2U chassis.
- **Increase uptime:** Redundant power and network, and a controlled environment improve availability and hardware lifespan. Easily fail-over users without even visiting the desk.
- **Simplify management:** Dell EMC OpenManage and automation realize the agility and scalability of a centralized workstation infrastructure.

### Dedicated power and performance

Deliver dedicated and powerful performance with professional 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 give graphics and compute acceleration performance
- **Remote Display Protocol Acceleration:** Teradici PCoIP processor gives an exceptional and responsive workstation experience

[www.amulethotkey.com](http://www.amulethotkey.com)

### Key Features

- Secure anywhere, anytime access to performance workstations
- 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, high-end options such as the NVIDIA Quadro P5000
- Windows and Linux OS options
- Support up to quad displays, with option for up to eight displays

### Remote access

- Remote connections can be local, across country or continent-to-continent
- 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 are sent from the workstation to the client endpoint so no sensitive data ever reaches the client
- Extensive security features with 256-bit AES encryption, smartcard and more

*Developed in partnership with...*











**EMEA Sales**

+44 (0)20 7960 2400  
emeasales@amulethotkey.com

**N America & Canada Sales**

+1 (212) 269 9300  
ussales@amulethotkey.com

**APJ Sales**

+61 409 930 884  
apsales@amulethotkey.com

**LATAM Sales**

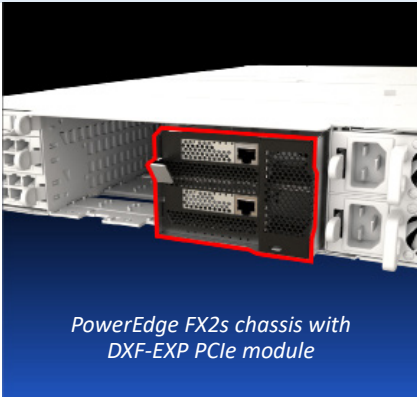
latamsales@amulethotkey.com

**Defence and Security**

security@amulethotkey.com

**Technical Support**

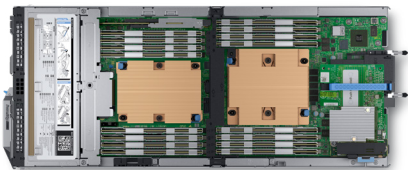
eurosupport@amulethotkey.com  
ussupport@amulethotkey.com  
latamsupport@amulethotkey.com  
apsupport@amulethotkey.com



PowerEdge FX2s chassis with DXF-EXP PCIe module



FX2s chassis - front view



FC640 - top view

©2018 Amulet Hotkey Ltd (AHK). All rights reserved. Information in this document is subject to change. AHK may have patents, patent applications, trademarks, copyrights or other intellectual property rights covering subject matter in this document. AHK is a registered trademark of Amulet Hotkey Ltd. Other product names and company names listed within this document may be trademarks of their respective owners.

Datasheet DS-WFC6-4001 v1.0 June 2018

[www.amulethotkey.com](http://www.amulethotkey.com)

**CoreStation WFC640 Specifications**

<b>Form factor</b>	Half-height blade for Dell PowerEdge® FX2s enclosure Up to 4 WFC640 blades per 2U enclosure
<b>Processors</b>	Up to two Intel® Xeon® Scalable processors up to 3.6 GHz, up to 38.5 MB cache and up to 28 cores per processor
<b>Operating Systems</b>	Microsoft Windows 10 Professional (64-bit), Enterprise (64-bit) Microsoft Windows 7 Professional (64-bit), Enterprise (64-bit) 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
<b>Memory</b>	Up to 2 TB ECC Registered DDR4 (16 DIMM slots) RDIMM/LRDIMM speeds up to 2666 MT/s
<b>Drive Bays</b>	<b>Front:</b> Up to 2x 2.5" hot-swappable SAS/SATA HDD, SSD, or PCIe NVMe, max. 12.8 TB Optional PowerEdge FD332 storage sled for up to 16x 2.5" drives
<b>Storage Controllers</b>	<b>Internal:</b> Software RAID S140, PERC H330, PERC H730P, Boot Optimized Storage System (BOSS M.2 SSD) or Internal Dual SD Module (IDSDM)
<b>Network</b>	4x 10GE, 2x 10GE, and 2x 1GE network daughter card options External networking provided by the FX2s enclosure
<b>Security</b>	TPM 1.2/2.0 option, Cryptographically signed firmware, Hardware Root of Trust, Secure Boot, System Lockdown, System Erase
<b>Embedded / at-blade management</b>	Chassis Management Controller (CMC), IPMI 2.0 compliant, iDRAC9 Express or Enterprise with Lifecycle Controller, Redfish compliant, at-server local server KVM access
<b>Power &amp; Cooling</b>	Supplied by the Dell FX2s enclosure

**Amulet Hotkey DXF-EXP-W PCIe Expansion Module**

<b>Form Factor</b>	DXF-EXP-W module series supports 4 PCIe Gen 3 (x8) slots for DXF-G graphics cards and DXF-H4 Remote Workstation cards Each module supports up to two CoreStation WFC640 blades in the FX2s chassis Two DXF-EXP modules per PowerEdge FX2s chassis with flexible PCIe mapping
--------------------	--

**Amulet Hotkey DXF-H4 Remote Workstation Card**

<b>Card Type</b>	A multi-function PCIe controller that supports HD Audio and a USB host controller for remoting displays, USB and audio	
<b>Processor</b>	Teradici TERA2240 PCoIP processor (one per DXF-G card)	
<b>Display resolution</b>	Up to dual 2560x1600 or up to quad 1920x1200	
<b>Network</b>	<b>DXF-H4:</b> <b>DXF-H4 M</b>	Single RJ45 port- 10/100/1000 BaseT Single SFP module- fiber or copper (1 Gbit/s or 100 Mbit/s) Available modules are listed in the <a href="#">SFP Modules Datasheet</a>
<b>Encryption</b>	256-bit or 128-bit AES, NSA Suite B ciphers	
<b>USB</b>	Remote USB ports provided by client endpoint	
<b>Client compatibility</b>	<b>Hardware zero clients:</b> <b>Software clients:</b>	Amulet Hotkey DXZ clients VMware Horizon, Citrix Receiver, Teradici PCoIP client and TGX Receiver

**Professional Graphics Options**

Model	GPU	Memory	Memory BW	Cores
<b>DXF-G-P5000</b>	<b>NVIDIA Quadro P5000</b>	16GB GDDR5	192 Gbps	2048
<b>DXF-G-S7100X</b>	<b>AMD FirePro S7100X</b>	8GB GDDR5	160 Gbps	2048
<b>DXF-G-M3000SE</b>	<b>NVIDIA Quadro M3000SE</b>	4GB GDDR5	160 Gbps	1024
<b>DXF-G-M2200</b>	<b>NVIDIA Quadro M2200</b>	4GB GDDR5	106 Gbps	1024
<b>DXF-G-S4000X</b>	<b>AMD FirePro S4000X</b>	2GB GDDR5	72 Gbps	640

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