



# POWEREDGE MX740C

## Efficient, feature-rich modular server for software-defined workloads

PowerEdge MX740c, designed for the PowerEdge MX kinetic infrastructure ecosystem, provides a flexible and dense two socket compute power for the modern data center.

A fully configurable single-width compute sled powered by up to two-28-core 2<sup>nd</sup> Generation Intel® Xeon® Scalable processors. Each PowerEdge MX740c supports 24 DDR4 DIMM slots and up to six 2.5-inch SAS/SATA (HDD/SDD) or Express Flash NVMe PCIe SSDs drives. A maximum of eight MX740c servers can be installed in the PowerEdge MX7000 chassis.

- Flexible memory configurations from capacities of up to 1.5TB (RDIMM) or 3TB (LRDIMM); support up to 192GB NVDIMM for large in-memory applications
- Supports up to 12 slots for Intel® Optane™ DC persistent memory PMem (6.1TB) with a maximum total capacity of 7.68TB per server
- Choice of optional M.2 Boot Optimized Storage Solution (BOSS) or Internal Dual microSD Module (IDSMD), to streamline operating system and data storage
- Option of Express Flash NVMe PCIe SSD for high performing direct attached storage requirements

### Intelligently automate to accelerate operations

As with every PowerEdge server, embedded, agent-free integrated Dell Remote Access Controller (iDRAC) 9 simplifies server systems management. Dell EMC OpenManage Enterprise – Modular Edition (OME-Modular) provides comprehensive in-system management within the PowerEdge MX7000 server chassis. Delivering key abilities of OpenManage Enterprise systems management, OME-Modular unified web/RESTful API interface manages the entire PowerEdge MX environment, including computer, storage and networking.

- Deploy, monitor, manage, configure, update, troubleshoot and remediate Dell EMC servers from any location, regardless of operating system or hypervisor presence or state.
- Speed systems management performance with enhanced iDRAC9 processor, up to four times better performance over the prior generation.

### Securely run IT operations and workloads

PowerEdge servers deliver an immutable silicon-based chain of trust and combines it with comprehensive management tools to provide robust layers of security across hardware and firmware. The result is an integrated Cyber-Resilient Architecture that provides a hardened server design to protect, detect and recover from cyber-attacks.

- Signed firmware updates using SHA-256 hashing with 2048-bit RSA encryption for signature for all key server components
- System Lockdown (requires iDRAC Enterprise or Datacenter license) to prevent unauthorized configuration or firmware changes to a server when using Dell EMC tools
- System erase to, with proper authentication, securely and quickly erase data from local storage (HDD/SSD/NVMe) and embedded flash devices

### PowerEdge MX740c

- 2-Socket compute sled for PowerEdge MX7000, ideal for virtualization and collaborative workloads
- Flexible and efficient workhorse with large memory and rich storage options
- Embedded iDRAC9 for easy lifecycle management

# PowerEdge MX740c

| Features                   | Technical Specification   |  |
|----------------------------|---|--|
| Processor                  | One or two 2 <sup>nd</sup> Generation Intel™ Xeon™ Scalable Processors, up to 28 cores per processor<br>Intel® C628 Chipset with optional Intel® QuickAssist Technology   |  |
| Memory                     | 24 DIMM slots in total; supports DDR4 RDIMMs, LRDIMMs; up to 2933 MT/s speed,<br>1.5TB maximum (RDIMM), 3TB maximum (LRDIMM)  |  |
| Persistent Memory          | 12 DIMM slots support NVDIMM-N; up to 2933 MT/s, 192GB maximum<br>Supports up to 12 slots for Intel® Optane™ DC persistent memory PMem (6.1TB) with a maximum<br>total capacity of 7.68TB per server  |  |
| Availability               | ECC   |  |
| Controllers                | Internal controllers: S140 Software RAID, HBA330 Internal SAS HBA, PERC H730P Adapter,<br>PERC H745P Adapter, HBA330 mini-mezzanine SAS HBA<br>Internal boot options: Choice of optional Boot Optimized Storage Solution (BOSS) (2 X M.2 SDDs)<br>or Internal Dual SD Module (IDSDM)  |  |
| Drive Bays                 | Front: Up to 6 x 2.5" SAS/SATA (HDD/SDD) or NVMe PCIe SSD   |  |
| Power Supplies             | MX7000 chassis: up to 6 3000W; PSU and grid redundancy support  |  |
| Fans                       | MX7000 chassis: 5 rear and 4 front-accessible hot-swap fans   |  |
| Dimensions (LxWxD)         | 620.35mm (24.2 inches) x 250.2mm (9.8 inches) x 42.14mm (1.65 inches)   |  |
| Embedded mgmt              | <p><b>MX7000 chassis:</b> OpenManage Enterprise Modular Edition (OME-Modular);<br/>up to 2 redundant MX9002m management modules<br/>Unified control: single management point for server, storage and networking<br/>Intelligent automation: Operational template methodology and comprehensive RESTful API<br/>Quick Sync 2 Bluetooth Low Energy (BLE)/wireless module</p> <p><b>On compute sled:</b><br/>As every other PowerEdge server, the Integrated Dell Remote Access Controller (iDRAC) 9<br/>iDRAC Direct<br/>iDRAC RESTful API with Redfish</p> |  |
| OpenManage™ SW             | OpenManage Enterprise   | OpenManage Mobile (OMM)<br>OpenManage Power Center (OMPC)  |
| Integrations & Connections | Integrations:<br>Microsoft® System Center<br>VMware® vCenter™<br>BMC Software (available from BMC)<br>Ansible by Red Hat  | Connections:<br>Nagios Core and Nagios XI<br>Oracle Enterprise Manager<br>Microfocus Operations Manager (OM) and Operations<br>Manager i (OMi)<br>IBM Tivoli Netcool/OMNibus |
| Security                   | TPM 1.2/2.0 (optional)<br>Cryptographically signed firmware<br>Silicon Root of Trust  | Secure Boot<br>System Lockdown (requires iDRAC Enterprise or<br>Datacenter)<br>System Erase  |
| Embedded NIC               |   |  |
| Networking Options (NDC)   | MX7000 chassis Fabric options: up to 2 pairs redundant general purpose switch or pass-through modular bays<br>(Fabrics A and B); redundant pair of storage specific switch bays (Fabric C)<br>Up to 25GbE, 32Gbps Fibre Channel, 12Gbps SAS   |  |
| GPU Options                |   |  |
| Front Ports                | 1 USB 3.0 port external port  |  |
| Internal Ports             | 1 x USB 3.0 internal port   |  |
| Video                      | Integrated VGA controller in iDRAC, VGA over LAN  |  |
| PCIe                       | 2 PCIe 3.0 x 16 mezzanine slots (Fabric A and B)<br>1 PCIe 3.0 x 16 mini-mezzanine slot (Fabric C)  |  |
| OS                         | Canonical® Ubuntu® Server LTS<br>Citrix Hypervisor™<br>Microsoft Windows Server® with Hyper-V<br>Red Hat® Enterprise Linux  | SUSE® Linux Enterprise Server<br>VMware® ESXi®<br>For specifications and interoperability details,<br>see <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .       |

## PowerEdge MX740c

| Features                    | Technical Specification   |
|-----------------------------|---|
| OEM-ready                   | From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .   |
| Recommended support         | Dell EMC ProSupport Plus for critical systems or Dell EMC ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell EMC representative today for more information. Availability and terms of Dell EMC Services vary by region. For more information, visit <a href="http://Dell.com/itlifecycleservices">Dell.com/itlifecycleservices</a> . |
| Dell EMC Financial Services | Deliver results with easy financing. Explore financial options that move at the speed of business. For more information, visit <a href="http://Dell.com/global-financial-services">Dell.com/global-financial-services</a> .   |

Learn more at [Dell.com/PowerEdge](http://Dell.com/PowerEdge)

### End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell EMC Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell EMC Sales Representative for more information.\*\*

©2019 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and tradenames may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.

Copyright © July 30, 2019 Dell Inc. or its subsidiaries. All Rights Reserved.

