



POWEREDGE FC640

Flexibility and performance with best-in-class density.

The PowerEdge FC640 delivers powerful performing processors, large memory capacity and highly scalable I/O capability that meet virtualization, server consolidation, scale-out, private cloud or hybrid cloud needs.

Powerful 2-socket modular architecture server

A flexible, two-socket half-height/width compute sled powered by up to two 28-core, Intel® Xeon® Scalable processors, each FC640 supports up to 2TB of DDR4 memory, making it a perfect candidate for dense virtualization environments, software defined storage, databases, HPC, big data analytics, and private cloud workloads. The FC640 storage options include two 2.5-inch drives, with an option of NVMe PCIe SSDs for high performing direct attached storage requirements. The FX2 chassis supports up to four FC640 servers. SDS environment support now includes VMware vSAN with the HBA330 controller.

Innovative management with intelligent automation

The Dell EMC OpenManage systems management portfolio enables peak efficiency for PowerEdge servers, through intelligent, automated management of routine IT tasks. Combined with the unique agent-free management capabilities of the embedded iDRAC9 with Lifecycle Controller, the FC640 is simply managed, freeing up your time for high profile projects.

- Increase IT data protection and integrity with the embedded security features of iDRAC9.
- Enable collective or individual management of your servers with the Dell EMC Chassis Management Controller (CMC), embedded within the FX2 enclosure.
- Improve IT productivity and agility with OpenManage Enterprise and Essentials: from bare-metal deployment to ongoing maintenance, and enforcement of IT policies within production environments.

End-to-end server ecosystem and life cycle security

Every PowerEdge server is designed as part of a cyber resilient architecture, integrating security into the full server life cycle. The FC640 leverages new security features built-into every new PowerEdge server strengthening protection so you can reliably and securely deliver accurate data to your customers no matter where they are. By considering each aspect of system security, from design to retirement, Dell EMC ensures trust and delivers a worry-free, secure infrastructure without compromise.

- Rely on a secure component supply chain to ensure protection from factory to the data center.
- Maintain data safety with cryptographically signed firmware packages and Secure Boot.
- Prevent unauthorized or malicious change with Server Lockdown.
- Wipe all data from storage media including hard drives, SSDs and system memory quickly and securely with System Erase.

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- Powered by Intel® Xeon® Processors Scalable Family
- Perfect for dense 'anything-as-a-service' (XaaS) and on-prem environments
- Access to eight PCIe 3.0 slots via FX2S chassis

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| Features | Technical Specification | |
|----------------------------------|---|---|
| Processor | Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor | |
| Memory | 16 DDR4 DIMM slots, supports RDIMM / LRDIMM / AEP, up to 2666MT/s speeds, 2TB max mem ECC Registered DDR4 | |
| Storage controllers | Internal controllers: Software RAID S140, PERC H330, H730P, HBA330 Boot Optimized Storage system, Internal Dual SD Module | |
| Drive bays | Front: Up to 2 x 2.5" SAS/SATA (HDD/SDD), NVMe SSD on a Universal Backplane, max 12.8TB (PCIe SSD) | |
| Power supplies | PowerEdge FX2 enclosure: Platinum Rated - 1600W, 2000W, 2400W | |
| Fans | Hot plug fans with full redundancy | |
| Dimensions (LxWxD) | 40.3mm x 211 mm x 535.8 mm | |
| Embedded / At-Server | iDRAC9 with Lifecycle Controller iDRAC Direct | iDRAC REST API with Redfish Chassis Management Controller (CMC) |
| Consoles & Mobile | OpenManage Enterprise OpenManage Essentials | OpenManage Mobile OpenManage Power Center |
| Integrations | Microsoft® System Center, VMware® vCenter™, BMC Software (available from BMC) | |
| Connections | Nagios Core and Nagios XI, MicroFocus | |
| Tools | Dell EMC Repository Manager Dell EMC Update Package Dell EMC System Update Dell EMC Server Update Utility | iDRAC Service Module OpenManage Server Administrator OpenManage Storage Services |
| Security | TPM 1.2/2.0 optional Cryptographically signed firmware Silicon Root of Trust | Secure Boot System Lockdown System Erase |
| I/O & Ports | Network daughter card options 2 x 10GE + 2 x 1GE, 4 x 10GE Video card: VGA controller integrated with iDRAC PCIe: See enclosure specifications | |
| Supported operating systems | Canonical® Ubuntu® Server LTS Citrix® XenServer® Microsoft Windows Server® with Hyper-V Oracle® Linux Red Hat® Enterprise Linux SUSE® Linux Enterprise Server VMware vSphere® | For specifications and interoperability details, see Dell.com/OSsupport . |
| Recommended support and services | Choose ProSupport Plus for critical systems or ProSupport for automated proactive and predictive 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 dell.com/Services | |
| Dell Financial Services | Deliver results with easy financing. Explore financial options that move at the speed of business. For more information, visit https://www.emc.com/products/how-to-buy/global-financial-services/index.htm .* | |

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