

POWEREDGE C4140

Accelerator optimized high density server



The PowerEdge C4140 is an accelerator-optimized, 1U rack server designed for most demanding workloads. It is ideal for cognitive workloads such as artificial intelligence, machine learning, deep learning and for technical computing in industry verticals such as financial services, life sciences, High Performance Computing (HPC) and oil and gas exploration.

Artificial Intelligence focused, ultra-dense, 4 GPU, 2 socket, 1U rack server

The C4140 is the industry's leading accelerator-optimized, ultra-dense server platform. It handles the most demanding cognitive and technical computing workloads. The C4140 delivers un-throttled performance with its unique interleaved GPU design and no-compromise acceleration technology. Dell EMC offers pre-configured Ready Bundles for Machine Learning and Deep Learning applications and empowers enterprises to easily adopt and quickly deploy their Cognitive and HPC solutions using Dell EMC PowerEdge C4140. For low latency, high performance applications such as Machine Learning, Deep Learning or Financial, the Dell EMC PowerEdge C4140 is the right fit.

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 C4140 is effortlessly managed, freeing up your time for high profile projects.

- Increase IT data protection and integrity with the embedded security features of iDRAC9.
- Improve IT productivity and agility with OpenManage Essentials: from bare-metal deployment to ongoing maintenance, and enforcement of IT policies within production environments.

End-to-end server ecosystem and lifecycle security

Every PowerEdge server is made with a cyber-resilient architecture, building security into all parts of a server's life cycle. The C4140 uses these enhanced security features to reliably and securely deliver the right data to where your customers are. Dell EMC considers each phase of system security, from design to end of life, to ensure trust and deliver worry-free, secure systems.

- 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.

PowerEdge C4140

- Accelerator optimized, high density rack server
- Supports four GPUs
- Purpose built for cognitive and technical workloads

PowerEdge C4140

Features	Technical Specification	
Processor	Two 2nd generation Intel® Xeon® Scalable processors, up to 24 cores per processor	
Memory	Up to 24 DDR4 DIMMs in total; Supports RDIMM /LRDIMM speeds up to 2933 MT/s, 1.5 TB Max ECC Registered DDR4	
Storage controllers	IDSDM or Internal M.2 Boot Module (2 x M.2) -120G, 240G, 480G	
Power supplies	2000W, 2400W hot-plug, in either a redundant power supply unit (PSU) or single PSU option (available in certain Configurations only)	
Accelerators	NVIDIA® Tesla® V100 16GB PCIe and NVLink GPUs, V100 32GB PCIe and NVLink GPUs	
Network daughter cards and Optional adapters	Support for the following Network Daughter Cards: Intel® X550 Quad Port 10GBASE-T (2+2) Intel® X550 Quad Port 10GBASE-T Intel® X710 Quad Port 10Gb SFP+ (2+2)	Support for the following PCIE N/W adapters: Intel® I350 Quad Port 1GbE PCIe LP Intel® X550 Dual Port 10GBASE-T PCIe LP Intel® X710 Dual Port 25GbE SFP28 PCIe LP Intel® X710 Dual Port 10GSFP+ PCIe LP Intel® X710 Dual Port 10GBASE-T PCIe LP Mellanox ConnectX-3 Pro Dual Port 10GbE SFP+ PCIe LP Mellanox ConnectX-3 Pro Dual Port 40GbE QSFP+ PCIe LP Mellanox ConnectX-4 LX Dual Port 10/25GbE SFP28 PCIe LP Mellanox ConnectX-4 Dual Port 100GbE QSFP28 PCIe LP Mellanox ConnectX-5 Dual Port 100GbE QSFP28 PCIe LP Intel® Omni-Path 1 x OPA 100Gb Mellanox ConnectX-3 Single Port FDR VPI PCIe LP Mellanox ConnectX-5 1Port Infiniband EDR VPI PCIe LP Solarflare 8522 Dual Port 10GbE SFP+ Onload PCIe LP Solarflare 8522 Dual Port 10GbE SFP+ PCIe LP Optional adapters: Support for 2x NVMe/PCIE SSD AIC in rear slots
Dimensions	H: 4.28 cm (1.69 in), W: 43.4 cm (17.09 in), D: 92.62 cm (36.46 in) Max weight: 24 kg (52.91 lb)	
Embedded / At-Server	iDRAC9 with Lifecycle Controller	
Consoles	OpenManage Enterprise OpenManage Essentials	OpenManage Server Administrator OpenManage Power Center
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Silicon Root of Trust	Secure Boot System Lockdown System Erase
I/O & Ports	Four (4) Double Wide accelerator Gen3 x16 PCIe slots Two (2) low profile Gen3 x16 PCIe slots Front ports: Power button, System ID/Status LED, Health Status LED Rear ports: 2 USB 3.0 Port and iDRAC ethernet port	
Supported operating systems	Canonical® Ubuntu® Server LTS 16.04.3 Red Hat® Enterprise Linux 7.4 and 7.5 SUSE® Linux Enterprise Server 12 SP3® Windows Server 2016 VMware® ESXi 6.5 U2 and 6.7	For specifications and interoperability details, see Dell.com/OSsupport .
Recommended support and services	Choose Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit dell.com/itlifecycleservices .	
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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