

Dell EMC PowerEdge OEM Quick Reference Guide

Complete solutions from Dell Technologies, including hardware, software, support and consulting services.

Solutions built on Dell EMC™ PowerEdge™ servers powered by Intel® Xeon® Scalable processors:



	PowerEdge R240	PowerEdge R340	PowerEdge R440	PowerEdge R540	PowerEdge R640	PowerEdge R740	
Processor Type	<ul style="list-style-type: none"> Intel Xeon E-2200 processor with up to 8 cores per processor Intel® Pentium® Gold G5420 processor with up to 2 cores per processor Intel® Core™ i3-9100 processor with up to 4 cores per processor Intel® Celeron® processor G4930 with up to 2 cores per processor 		Up to two 2nd Generation Intel Xeon Scalable processors with up to 24 cores per processor	Up to two 2nd Generation Intel Xeon Scalable processors with up to 20 cores per processor	Up to two 2nd Generation Intel Xeon Scalable processors with up to 28 cores per processor		
Server Type and Key Workloads	Efficient, versatile compute, good for small office/home office (SOHO) workloads	Expandable performance for small and medium-sized business (SMB) and remote office/branch office (ROBO) applications	High-density compute for virtualized workloads	Scale-up compute for high-capacity software-defined storage (SDS)	Dense scale-out data center computing and storage	Virtual desktop infrastructure (VDI) and cloud workloads	
Operating System	<ul style="list-style-type: none"> Microsoft Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition VMware ESXi™ 6.7 on flash media 		<ul style="list-style-type: none"> VMware ESXi 6.5 on flash media VMware ESXi 6.5 on a Dell Boot Optimized Storage Solution (BOSS) card 	<ul style="list-style-type: none"> Red Hat® Enterprise Linux® (RHEL) 8.1 RHEL for high-performance computing (HPC) RHEL for SAP® solutions RHEL Smart Management 			
Microsoft Licenses	Primary operating system: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 		Windows Server 2019 Client Access Licenses (CALs): <ul style="list-style-type: none"> Windows Server 2019 operating system user CALs Windows Server 2019 operating system device CALs Windows Server 2019 Remote Desktop Services (RDS) user CALs Windows Server 2019 RDS device CALs 	Guest operating system—Microsoft: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 			
VMware ESXi	Primary operating system—VMware: <ul style="list-style-type: none"> ESXi 6.7 on flash media ESXi 6.5 on flash media ESXi 6.5 on a Dell BOSS card 		Additional VMware OEM options: <ul style="list-style-type: none"> VMware vSphere® editions VMware vCenter® editions 	Guest operating system—Microsoft: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 	Additional Microsoft OEM options: <ul style="list-style-type: none"> Windows Server 2019 operating system user CALs Windows Server 2019 operating system device CALs Windows Server 2019 RDS user CALs Windows Server 2019 RDS device CALs 		
Linux	OEM Linux options: <ul style="list-style-type: none"> SUSE® Linux Enterprise Server (SLES) Ubuntu® Server 						
Microsoft SQL Server 2019 Standard Edition	Not available	Not available	SQL Server 2019 CALs: <ul style="list-style-type: none"> SQL Server 2019 Standard with 5 CALs SQL Server 2019 Standard user CALs SQL Server 2019 Standard device CALs SQL Server 2019 Standard, OEM, additional server 	<ul style="list-style-type: none"> SQL Server 2019 Standard, 4 core SQL Server 2019 Standard, 2 core add-on 			
Systems Management	Dell EMC™ OpenManage™ integrations and connections: <ul style="list-style-type: none"> Integrated Dell Remote Access Controller (iDRAC) and OpenManage RESTful APIs OpenManage Mobile management OpenManage change management 		<ul style="list-style-type: none"> OpenManage Integration for Microsoft System Center Configuration Manager OpenManage Integration for Microsoft System Center Operations Manager 	<ul style="list-style-type: none"> OpenManage Integration with Microsoft Windows Admin Center OpenManage Integration for VMware vCenter (OMIVV) 			
Support and Consulting Services	<ul style="list-style-type: none"> Dell ProSupport™/Dell ProSupport Plus Dell ProDeploy/Dell ProDeploy Plus 						

	PowerEdge R740xd	PowerEdge R840	PowerEdge R940	PowerEdge R940xa	PowerEdge T340	PowerEdge T440	PowerEdge T640
Processor Type	Up to two 2nd Generation Intel Xeon Scalable processors with up to 28 cores per processor	Up to four 2nd Generation Intel Xeon Scalable processors			Intel Xeon E-2200 processor, Intel Pentium Gold G5420 processor, Intel Core i3-9100, Intel Celeron processor G4930	Up to two 2nd Generation Intel Xeon Scalable processors with up to 28 cores per processor	
Server Type and Key Workloads	SDS, service providers and big data servers	Data-intensive workloads, high-frequency trading (HFT) and dense virtualization	In-memory databases	Graphics processing unit (GPU) database acceleration and machine learning (ML)	Collaboration, file sharing, databases, and mail and messaging	Workgroup collaboration and productivity, mail and messaging, file and print serving, web serving, database applications, and server consolidation and virtualization	Server virtualization; desktop virtualization; consolidation; databases; business analytics; business intelligence (BI); applications and imaging for medical, finance, education and science; enterprise resource planning (ERP); customer relationship management (CRM); HPC; software-defined technologies
Operating System	<ul style="list-style-type: none"> Microsoft Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition VMware ESXi 6.7 on flash media 		<ul style="list-style-type: none"> VMware ESXi 6.5 on flash media VMware ESXi 6.5 on a Dell BOSS card 		<ul style="list-style-type: none"> RHEL 8.1 RHEL for HPC RHEL for SAP solutions RHEL Smart Management 		
Microsoft Licenses	Primary operating system: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 		Windows Server 2019 CALs: <ul style="list-style-type: none"> Windows Server 2019 operating system user CALs Windows Server 2019 operating system device CALs 		<ul style="list-style-type: none"> Windows Server 2019 RDS user CALs Windows Server 2019 RDS device CALs 		
VMware ESXi	Primary operating system—VMware: <ul style="list-style-type: none"> ESXi 6.7 on flash media ESXi 6.5 on flash media ESXi 6.5 on a Dell BOSS card 		Additional VMware OEM options: <ul style="list-style-type: none"> VMware vSphere editions VMware vCenter editions 		Guest operating system—Microsoft: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 		
Linux	OEM Linux options: <ul style="list-style-type: none"> SLES Ubuntu Server 						
Microsoft SQL Server 2019 Standard Edition	SQL Server 2019 CALs: <ul style="list-style-type: none"> SQL Server 2019 Standard with 5 CALs SQL Server 2019 Standard user CALs SQL Server 2019 Standard device CALs SQL Server 2019 Standard, OEM, additional server 		<ul style="list-style-type: none"> SQL Server 2019 Standard, 4 core SQL Server 2019 Standard, 2 core add-on 				
Systems Management	OpenManage integrations and connections: <ul style="list-style-type: none"> iDRAC and OpenManage RESTful APIs OpenManage Mobile management OpenManage change management 		<ul style="list-style-type: none"> OpenManage Integration for Microsoft System Center Configuration Manager OpenManage Integration for Microsoft System Center Operations Manager OpenManage Integration with Microsoft Windows Admin Center 		<ul style="list-style-type: none"> OMIVV 		
Support and Consulting Services	<ul style="list-style-type: none"> Dell ProSupport/Dell ProSupport Plus Dell ProDeploy/Dell ProDeploy Plus 						

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Solutions built on Dell EMC™ PowerEdge™ servers powered by AMD EPYC® processors:

	PowerEdge R6415	PowerEdge R7415	PowerEdge R7425	PowerEdge R7525
Processor Type	1 AMD EPYC processor		2 AMD EPYC processors	
Server Type and Key Workloads	Dense software-defined storage (SDS), virtualization	Virtualization, business intelligence (BI) analytics and scale-out, high-capacity SDS	High-performance computing (HPC), virtual desktop infrastructure (VDI), cloud client computing, database/in-line analytics and scale-up software-defined environments	Up to 24 direct-connect NVM Express® (NVMe®) supports for all-flash VMware vSAN™ AF-8 VMware vSAN ReadyNode™ instances; maximized storage and memory configuration option enables HPC, machine learning (ML)/deep learning (DL)/artificial intelligence (AI) and rendering; balanced core count and graphics processing unit (GPU) to support the maximum numbers of end users
Operating System	<ul style="list-style-type: none"> Microsoft Windows Server 2019 Windows Server 2016/2012 downgrade media Microsoft Hyper-V VMware ESXi™ 	<ul style="list-style-type: none"> VMware vSphere® 6.7 Windows Server 2012 R2 Windows Server 2016 Red Hat® Enterprise Linux® (RHEL) 	<ul style="list-style-type: none"> SUSE® Linux Enterprise Server (SLES) 15 Ubuntu® Server 18.04.1 VMware vSphere 2016 U1 (ESXi 6.5 U1) Canonical® Ubuntu Server LTS Citrix® Hypervisor 	
Microsoft Licenses	Primary operating system: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 	Windows Server 2019 Client Access Licenses (CALs): <ul style="list-style-type: none"> Windows Server 2019 operating system user CALs Windows Server 2019 operating system device CALs Windows Server 2019 Remote Desktop Services (RDS) user CALs 	<ul style="list-style-type: none"> Windows Server 2019 RDS device CALs Windows Server 2019 Standard (16 core) OEM channel only Windows Server 2019 Datacenter (32 core) OEM channel only Windows Server 2019 Datacenter with reassignment rights (16 core) OEM channel only 	
VMware Licenses	Primary operating system—VMware: <ul style="list-style-type: none"> ESXi 6.7 on flash media ESXi 6.5 on flash media ESXi 6.5 on a Dell Boot Optimized Storage Solution (BOSS) card 	Additional VMware OEM options: <ul style="list-style-type: none"> vSphere editions VMware vCenter® editions 	Guest operating system—Microsoft: <ul style="list-style-type: none"> Windows Server 2019 Standard edition Windows Server 2019 Datacenter edition 	Additional Microsoft OEM options: <ul style="list-style-type: none"> Windows Server 2019 operating system user CALs Windows Server 2019 operating system device CALs Windows Server 2019 RDS user CALs Windows Server 2019 RDS device CALs
Microsoft SQL Server 2019 Standard Edition	SQL Server 2019 CALs: <ul style="list-style-type: none"> SQL Server 2019 Standard with 5 CALs SQL Server 2019 Standard user CALs SQL Server 2019 Standard device CALs SQL Server 2019 Standard, OEM, additional server 	<ul style="list-style-type: none"> SQL Server 2019 Standard, 4 core SQL Server 2019 Standard, 2 core add-on 		
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