

最佳化通型伺服器支援要求最嚴苛的工作負載

Dell EMC PowerEdge R750 這款全功能企業級伺服器針對要求最嚴苛的工作負載提供卓越效能



面對艱鉅與新興工作負載推動大規模創新

配備第 3 代 Intel® Xeon® Scalable 處理器的 Dell EMC PowerEdge R750 是一款機架伺服器，針對應用效能與加速量身設計。雙插槽 / 2U 機架規格的 PowerEdge R750 伺服器針對要求最嚴苛的工作負載提供卓越效能。這款伺服器每個 CPU 支援 8 個通道，最高支援到 32 個 3200 MT/s DIMM 時脈速度的 DDR4 DIMM 記憶體。此外為因應吞吐量的大幅增加，PowerEdge R750xa 支援 PCIe Gen 4 匯流排，最多可安裝 24 個 NVMe 儲存碟，內部除了氣冷散熱配備，還可選配 Direct Liquid Cooling 水冷設備，以支援更高的耗電與散熱需求。這讓 PowerEdge R750 成為資料中心標準化的理想伺服器，適合運行各種工作負載，其中包括資料庫與分析、高效能運算 (HPC)、傳統企業 IT、虛擬桌面基礎架構、以及要求效能 / 儲存容量 / GPU 支援的人工智慧 / 機器學習環境。

透過自主協作增進效率與加速營運

Dell EMC OpenManage 系統管理方案能克服管理與保護 IT 基礎設施衍生的複雜性。運用 Dell Technologies 各種直覺化端至端工具，IT 能提供安全無虞的整合式經驗，減少流程與資訊的孤島，讓用戶將心力專注投入在拓展業務。Dell EMC OpenManage 系列是您創新引擎的關鍵要素，能夠釋放各種工具與自動化的潛力，協助您擴充、管理、以及保護您的技術投資。

- 內建遙測資料串流分析、散熱管理、以及 RESTful API with Redfish 提供加速可視化與控制功能，造就更好的伺服器管理成效
- 智慧自動化，促成人員操作與系統功能之間更好的協作，藉以提高生產力
- 整合式變動管理功能，支援更新規劃，設定與建置作業不僅無縫銜接而且無需人為操作
- 全堆疊管理，整合包括 Microsoft、VMware、ServiceNow、Ansible、以及其它工具

透過主動韌性保護您的資料資產與基礎設施

Dell EMC PowerEdge R750 伺服器採用資安韌性架構進行設計，將安全深入整合到生命週期的每個階段，從設計一路涵蓋到除役。

- 在安全平台上運行您的工作負載，運用密碼保護的信任開機程序以及晶片式信任根技術
- 運用數位簽署韌體套件維護伺服器韌體的安全
- 運用系統鎖定 (lockdown) 功能防止未經授權的設定或韌體變更
- 運用 System Erase 安全迅速地抹除各種儲存媒體內的所有資料，包括機器硬碟、固態硬碟、以及系統記憶體

PowerEdge R750

The Dell EMC PowerEdge R750 offers compelling performance, high-speed memory and capacity, I/O bandwidth and storage to address data requirements – Ideal for:

- 人工智慧 / 機器學習 / 深度學習
- 高效能運算
- 虛擬化

R750 的 word 資料誤植 R750xa(此區待確認)

Feature	Technical Specifications	
Processor	Up to two 3rd Generation Intel Xeon Scalable processors, with up to 40 cores per processor	
Memory	<ul style="list-style-type: none"> 32 DDR4 DIMM slots, supports RDIMM 2 TB max or LRDIMM 8 TB max, speeds up to 3200 MT/s Up to 16 Intel Persistent Memory 200 series (BPS) slots, 8 TB max Supports registered ECC DDR4 DIMMs only 	
Storage controllers	<ul style="list-style-type: none"> Internal controllers: PERC H745, HBA3551, S150, H345, H755, H755N Boot Optimized Storage Subsystem (BOSS-S2): HW RAID 2 x M.2 SSDs 240 GB or 480 GB External PERC (RAID): PERC H840, HBA355E 	
Drive Bays	<p>Front bays:</p> <ul style="list-style-type: none"> Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 192 TB Up to 8 x 2.5-inch NVMe (SSD) max 122.88 TB Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 245.76 TB Up to 24 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 368.84 TB <p>Rear bays:</p> <ul style="list-style-type: none"> Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 30.72 TB Up to 4 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB 	
Power Supplies	<ul style="list-style-type: none"> 800 W Platinum AC/240 HVDC 1100 W Titanium AC/240 HVDC 1400 W Platinum AC/240 HVDC 2400 W Platinum AC/240 HVDC 	
Cooling Options	Air cooling, optional processor liquid cooling	
Fans	<ul style="list-style-type: none"> Standard fan/High performance SLVR fan/High performance GOLD fan Up to six hot plug fans 	
Dimensions	<ul style="list-style-type: none"> Height – 86.8 mm (3.41 inches) Width – 482 mm (18.97 inches) Depth – 758.3 mm (29.85 inches) - without bezel 772.14 mm (30.39 inches) - with bezel 	
Form Factor	2U rack server	
Embedded Management	<ul style="list-style-type: none"> iDRAC9 iDRAC Service Module iDRAC Direct Quick Sync 2 wireless module 	
Bezel	Optional LCD bezel or security bezel	
OpenManage Software	<ul style="list-style-type: none"> OpenManage Enterprise OpenManage Power Manager plugin OpenManage SupportAssist plugin OpenManage Update Manager plugin 	
Mobility	OpenManage Mobile	
Integrations and Connections	<p>OpenManage Integrations</p> <ul style="list-style-type: none"> BMC Truesight Microsoft System Center Red Hat Ansible Modules VMware vCenter and vRealize Operations Manager 	<p>OpenManage Connections</p> <ul style="list-style-type: none"> IBM Tivoli Netcool/OMNibus IBM Tivoli Network Manager IP Edition Micro Focus Operations Manager Nagios Core Nagios XI
Security	<ul style="list-style-type: none"> Cryptographically signed firmware Secure Boot Secure Erase Silicon Root of Trust System Lockdown (requires iDRAC9 Enterprise or Datacenter) TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ 	
Embedded NIC	2 x 1 GbE LOM	
Network Options	1 x OCP 3.0 (x8 PCIe lanes)	
GPU Options	Up to two double-width 300 W, or four single-width 150 W, or six single-width 75 W accelerators	
Ports	<p>Front Ports</p> <ul style="list-style-type: none"> 1 x Dedicated iDRAC Direct micro-USB 1 x USB 2.0 1 x VGA <p>Internal Ports</p> <ul style="list-style-type: none"> 1 x USB 3.0 	<p>Rear Ports</p> <ul style="list-style-type: none"> 1 x USB 2.0 1 x Serial (optional) 1 x USB 3.0 2 x RJ-45 1 x VGA (optional for liquid cooling configuration)
PCIe	Up to 8 x PCIe Gen4 slots (up to 6 x16) with support for SNAP I/O modules	
Operating System and Hypervisors	<ul style="list-style-type: none"> Canonical Ubuntu Server LTS Citrix Hypervisor Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi <p>For specifications and interoperability details, see Dell.com/OSsupport.</p>	
OEM-ready version available	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 Dell.com/OEM .	

建議支援與服務

關鍵系統專屬的 **Dell ProSupport Plus** 或高階硬體與軟體專屬的 **Dell ProSupport** 都能支援你的 **PowerEdge** 解決方案。此外還有諮詢與部署方案。歡迎立即聯絡戴爾當地業務代表詢問詳情。戴爾服務的供應狀況與條款依地區而異。欲知詳情，敬請參閱官網：

www.delltechnologies.com/Services。

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