



POWEREDGE FC830

Powerful 4-socket server with dense compute, memory scalability and a highly expandable storage subsystem, the Dell PowerEdge FC830 is designed for data centers requiring the performance and reliability enterprise applications demand.

With powerful processors, enormous memory and highly scalable I/O capabilities, the PowerEdge FC830 excels at running a wide range of database-driven, mission-critical applications for midsize and large businesses, like enterprise resource planning (ERP) and customer relationship management (CRM). Combining exceptional performance and data access capabilities, the FC830 is also ideal for the database tier of web tech and HPC environments or large-scale virtualization.

Flexible, scalable, powerful

Powered by up to four 22-core Intel® Xeon® E5-4600 v4 processors, each FC830 has 48 DIMMs, 16 x 1.8-inch, or eight 2.5-inch front-access drives, a dual-port 10GB select network adapter (SNA) and access to four PCI Express (PCIe) expansion slots in the shared chassis.

Fit the infrastructure to the job

Build an infrastructure that's tailored for your unique IT requirements. The FC830 provide flexible virtualization with great VM density and highly scalable resources for the consolidation of large or performance-hungry VMs, and also offers a rich set of storage options, including the PowerEdge FD332 storage block, which provides up to 16 direct-attached drives.

The efficiencies of shared infrastructure

FC830 servers are housed in the FX2 enclosure, a 2U converged platform delivering the density of a blade architecture with the simplicity and cost benefits of rack-based systems — all in a compact modular design. The FX2 delivers efficiency through shared power, cooling, networking and management, as well as PCIe slots and I/O module options that enable any style of storage — DAS, SAN or NAS.

Right-size your IT

Quickly and efficiently add resources to the chassis at the single block level, or add one or more fully loaded 2U enclosures. A single FX2 with two FC830 servers, scales up to 176 cores, 96 DIMMs of memory and 32 drives of in-server storage so you can readily tailor your infrastructure with the right power, storage and connectivity to meet your unique business needs.

Innovative management with intelligent automation

The Dell OpenManage systems management portfolio simplifies and automates server lifecycle management — making IT operations more efficient and Dell servers the most productive, reliable and cost effective. Dell's agent-free integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller makes server deployment, configuration, and updates automated and efficient. Using Chassis Management Controller (CMC), an embedded component that is part of every FX2 chassis, you'll have the choice of managing FC830 server nodes individually or collectively via a browser-based interface.

OpenManage Essentials provides enterprise-level monitoring and control of Dell and third-party data center hardware, and works with OpenManage Mobile to provide similar information on smart phones. OpenManage Essentials now also delivers server configuration management capabilities that automate bare-metal server and OS deployments, replication of configurations, and ensures ongoing compliance with set system configurations.

PowerEdge FC830

- Up to 48 DIMMS
- Powered by up to 4 Intel Xeon E5-4600 v4 processors
- Access to four PCIe 3.0 expansion slots

Feature	Technical specification
Form factor	Full-width – supports up to 2 sleds per PowerEdge FX2 enclosure
Dimensions	W: 48.8 cm (19.2 in) D: 37.6 cm (14.8in) H: 5.1 cm (2 in)
Processor	Intel® Xeon® processor E5-4600 v4 product family Processor sockets: 4 Cache: 2.5MB per core; core options: 4, 6, 8, 10, 12, 16, 18, 22 Chipset: Intel C610 series
Memory¹	Up to 1.5TB (48 DIMM slots): 4GB/8GB/16GB/32GB/64GB DDR4 up to 2400MT/s
I/O mezzanine cards	Access to 4 x PCIe 3.0 (x8) expansion slots, (up to 8 for certain configurations)
RAID controllers	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P
Primary storage	Hot-plug hard drive options: PowerEdge Express Flash NVMe PCIe, SATA HDD/SSD or SAS HDD/SSD Up to 16 x 1.8" SSD or 8 x 2.5"
Optional adapters	Optional NICs and HBAs
Power supplies	Chassis level – PowerEdge FX2 hot-plug PSU: 2000W or 1600W AC in 1+1 redundant or 2+0 non-redundant configurations
Video card	Video type Matrox® G200 (integrated with iDRAC8) Video memory: 16MB shared with iDRAC8 application memory
Systems management	<ul style="list-style-type: none"> FX uses Chassis Management Controller (CMC) to manage all resources (server nodes and shared infrastructure) in a single web console OpenManage portfolio for FX supports local and remote management, consistent with other PowerEdge products CMC and iDRAC are available with either Enterprise or Express licensing to best suit specific management needs Server nodes each contain proven iDRAC8 with Lifecycle Controller for agent-free, automated systems management
Operating systems	Microsoft® Windows Server® 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux VMware® ESX® For more information on the specific versions and editions, visit Dell.com/OSsupport .

¹GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

For more information about the FX architecture, visit the PowerEdge FX product page on Dell.com.

Recommended services

ProSupport Plus with SupportAssist provides proactive and predictive support for critical systems. ProSupport provides comprehensive hardware and software support. Get more from your technology starting on day one with ProDeploy Enterprise Suite deployment offers. For more information, visit Dell.com/itlifecycleservices.

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 Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.*

Learn more at Dell.com/PowerEdge

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