POWEREDGE FM120X4

Packing four single-socket microservers on one half-width sled, the Dell PowerEdge FM120x4 provides low-cost, power-optimized density with enterprise-class systems management.

The PowerEdge FM120x4 microserver, featuring the low-power Intel® Atom™ processor C2000 product family and ultra-dense system-on-a-chip (SoC) design, is ideal for large-scale static web hosting and lighter-weight processing, like batch data analytics.

Innovative design

Each FM120 microserver is powered by a single Intel Atom processor C2000 with up to eight cores, two DIMMs of memory, one 2.5-inch front-access hard drive or two 1.8-inch SSDs, and an integrated 1GbE NIC on the SoC. PCIe connectivity is not supported for the FM120x4. The compact design of the C2000 allows the FM120x4 sled to hold four microservers. A fully loaded FX2 chassis can hold 16, offering impressive density. Using eight-core processors, 128 cores and 32 DIMMs of memory can be utilized in a single 2U FX2 chassis. The low-power characteristics of the C2000 enable the FM120x4 to comply with Dell Fresh Air 2.0 requirements, letting you save on energy and cooling costs for your data center.

The efficiencies of shared infrastructure

FM120x4 server blocks are housed in the Dell PowerEdge FX2 chassis — a 2U rack-based hybrid computing platform that delivers the density of a blade architecture with the simplicity and cost benefits of rack-based systems — all in a compact modular design.

With shared power, cooling and networking, the FX2 delivers efficiency and flexibility for data center infrastructures. Simply and efficiently add resources to your infrastructure, when and where you need them. Add to the chassis at the single-server level or add one or more fully loaded 2U enclosures.

Comprehensive systems 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 FM120x4 microservers 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 FM120x4

- Up to 2 x DIMMs
- Up to 8-core Intel Atom processor C2000
- 2.5" internal drive or 2 x 1.8" SSDs
- System-on-a-chip design

Feature	Technical specification
Form factor	Half-width – supports up to four (4) sleds per PowerEdge FX2 enclosure
Dimensions	H: 4.03 cm (1.58 in), W: 10.27 cm (4.04 in), D: 47.17 cm (18.57 in)
Processor	4 x Intel Atom processor C2000 product family **Cache:** 1MB shared L2 between two cores – 4MB total cache for eight cores; core options: 2, 4, 8
Integrated NIC	2 x 1Gb controllers embedded in the SOC
Memory	2 x DIMMs DDR3 memory per SOC, UDIMM only, 8 per sled.
RAID controller	SW RAID
Storage	1 x 2.5" front access hard drives or 2 x 1.8" SSD drives
Communications	No PCIe slots (Up to 2 pass-through modules, 1Gb capable via the FX2 chassis)
Power supplies	1100W power supply via FX2 chassis
Systems management	• 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 Microsoft Windows® HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux VMware® ESX® For more information on the specific versions and additions, visit Dell.com/OSsupport.

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.*

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