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System x3650 M4

Two-socket 2U rack server with blend of performance and reliability for business-critical workloads

Optimal performance and virtualization

The versatile System x3650 M4 blends outstanding uptime and performance for business-critical workloads, including cloud computing, virtual desktop and business analytics. The powerful server offers an energy-smart and easy-to-use rack solution with a pay-as-you-grow design to help manage risks. With more computing power per watt and the latest Intel Xeon E5-2600 v2 series processors, advanced memory support, and greater disk capacity for businesses requiring ample storage, the x3650 M4 offers balanced performance and density. Additionally, as the first x86 server to achieve the TPC-C benchmark, virtualized (1 M TPM),[1] the x3650 M4 is optimized for cloud computing and virtualization applications.

Outstanding uptime

With redundant hot-swap fans, disks and power supplies, the x3650 M4 provides a resilient architecture ideal for business-critical applications. Predictive Failure Analysis and light path diagnostics proactively monitor the system's sub-components and provide advanced warning on power supplies, fans, VRMs, disks, processors and memory. Redundant hot-swap components make it easy to replace failures without taking your system down. Light path diagnostics displays a visible warning light indicator on a failing component, allowing time for component replacement prior to failure and facilitating high availability.

New management features

The Integrated Management Module 2 (IMM2) and Unified Extensible Firmware Interface (UEFI) tools give the x3650 M4 a consistent system-level code stack for superior setup, configuration and ease of use. Optional Feature on Demand (FoD) remote presence provides the ability to manage and monitor from anywhere. Powerful and easy-to-use tools can help you manage both physical and virtual resources.

Select configurations of the x3650 M4 are part of the Express Portfolio™, designed to meet the needs of small and midsized businesses. Easy to manage, Express models vary by country.

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Specifications

Form factor/height	2U Rack
Processor (max)	Up to two 12-core Intel Xeon E5-2600 v2 series processors
Cache (max)	30 MB per processor
Memory (max)	Up to 768 GB via 24 slots (UDIMM/RDIMM/LRDIMM/HyperCloud DIMM)
Media bays	Optional ODD and tape drive bay
Disk bays	Sixteen 2.5-inch or six 3.5-inch HDDs or thirty-two 1.8-inch SSDs
RAID support	Integrated 6 Gbps or new optional 12 Gbps* hardware RAID-0, -1, -10 with optional RAID-5, -50, -6, -60.
Power supply (std/max)	1/2 redundant 550 W AC, 750 W AC, 900 W AC, or 750 W DC (model dependent)
Hot-swap components	Power supplies, fan modules and hard disk drives
Network interface	4 × 1 GbE (std.), 2 × 10 GbE embedded adapter (slotless opt.)/Trusted Platform Module
Expansion slots	4 - 6 PCIe 3.0 ports, optional 4 PCI-X or 2 double-width PCIe (for GPU)
USB ports \ VGA ports	2 front/4 back/2 internal \ 1 front/1 back
Maximum internal storage	Up to 25.6 TB (2.5-inch model) or 24 TB (3.5-inch model) SAS/SATA
Energy-efficiency compliance†	80 PLUS® Platinum and ENERGY STAR® (model dependent) Compliance
Systems management	IMM2 with optional FoD remote presence, Predictive Failure Analysis, Diagnostic LEDs, light path diagnostics panel, Automatic Server Restart, IBM Systems Director Active Energy Manager™
Operating systems supported	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware vSphere
Limited warranty	3-year customer replaceable unit and onsite limited warranty, next business day 9x5, service upgrades available

Options

1.8TB 10K 6Gbps SAS 2.5" G2HS 512e HDD	ServeRAID M5210 SAS/SATA Controller	16GB (1x16GB, 2Rx4, 1.5V) PC3-14900 CL13 ECC DDR3 1866MHz LP RDIMM
00NA441	46C9110	00D5048
Optimize density and performance with the latest 2.5" HDDs	Superior performance RAID with upgradeable flash backed write cache, up to 4GB	Add more memory to help improve the performance of all your workloads

Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

For more information

To learn more about the x3650 M4, visit: **ibm.com**/systems/x or contact your Lenovo representative or Business Partner.

[1] TPC-C Performance Benchmark, February 2013

* Available in 4Q 2013

† Lenovo intends to qualify this product to the ENERGY STAR Computer Server requirements, but that will not be finalized until Lenovo submits the required information to the EPA and receives confirmation from the EPA that the product is qualified.

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IBM x86 products are now products of Lenovo in the U.S. and other countries. Learn more at **ibm.com**/lenovo-acquisition

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