IBM System x3650 M4

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

Highlights

- Innovative design, optimized for performance and reliability

- Wide range of business-critical applications, including cloud computing, virtual desktop, and business analytics

- Optimized for cloud computing and virtualization

- Outstanding reliability, availability and serviceability (RAS) for an improved business environment

- Easy to deploy, integrate, service and manage

Optimal performance and virtualization

The versatile IBM 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.

IBM System x3650 M4 at a glance

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	IBM IMM2 with optional FoD remote presence, Predictive Failure Analysis, Diagnostic LEDs, light path diagnostics panel, Automatic Server Restart, IBM Systems Director and 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

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

For more information

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

XSD03132-USEN-06