



Highlights

- 2U two socket high-density storage server featuring on-board 12 Gbps RAID controller
- Excellent reliability, availability and serviceability (RAS) for an improved business environment
- Easy to deploy, service and manage
- Ideal for data analytics, cloud computing, data management, and business-critical workloads



IBM System x3650 M4 HD

Ultimate high-density storage server, designed for your data-intensive, analytics or business-critical workloads

Robust, dense storage server

The IBM® System x3650 M4 HD high density storage server supports up to twenty-six 2.5-inch HDDs/SSDs or sixteen 2.5-inch HDDs/SSDs + sixteen 1.8-inch SSDs. The x3650 M4 HD is ideal for high-performance, storage-intensive applications, including data analytics or business-critical workloads.

Optimized for storage and performance

The x3650 M4 HD supports multiple RAID adapter configurations. Offering the latest Intel Xeon E5-2600 v2 series processors and advanced 1866 MHz memory support, the x3650 M4 HD delivers balanced performance and storage density. The powerful server offers an energy-smart, affordable pay-as-you-grow design to help lower costs and manage risks.

Outstanding uptime

The x3650 M4 HD Storage Server blends outstanding uptime and rock-solid reliability. Predictive Failure Analysis proactively monitors the system's subcomponents and provides advanced warning on key components. Light path diagnostics displays a visible warning light indicator on the failing component inside the system, allowing time for component replacement prior to failure and facilitating high system availability.

Management features

The Integrated Management Module 2 (IMM2) and Unified Extensible Firmware Interface (UEFI) give the x3650 M4 HD 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, monitor and troubleshoot from anywhere.



Select configurations of the x3650 M4 HD 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.



IBM System x3650 M4 HD at a glance	
Form factor/height	2U Rack
Processor (max)	Up to two 12-core Intel Xeon E5-2600 v2 series processors
Cache (max)	Up to 30 MB per processor
Memory (max)	Up to 768 GB via 24 slots (UDIMM/RDIMM/LRDIMM)
Disk bays	Up to twenty-four in front plus two in rear 2.5-inch HDDs/SSDs or sixteen 2.5-inch HDDs/SSDs + sixteen 1.8-inch SSDs
RAID support	Embedded 12 Gbps IBM ServeRAID M5210e RAID on motherboard, supports hardware RAID-0, -1, -10, and up to 4 GB* Flash-backed cache with RAID-5, -50 and -6, -60 (FoD). Support for multiple RAID adapters configuration and booting from two rear HDDs/SSDs
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	Up to six PCIe 3.0 ports, optional 4 PCI-X
USB ports	2 front (via dongle cable)/4 back/2 internal
VGA ports	1 front (via dongle cable)/1 back
Maximum internal storage	Up to 41.6 TB
Energy-efficiency compliance [†]	Compliant with 80 PLUS® Platinum and ENERGY STAR® (model dependent)
Systems management	IBM IMM2 with optional FoD remote presence, Predictive Failure Analysis, Diagnostic LEDs, light path diagnostics, 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

For more information

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



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* Available in 1Q 2014

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



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