IBM

IBM System x3650 M4 BD

2U two-socket Big Data storage server

Highlights

- Purpose-built for Big Data workloads

- Abundant, cost-efficient storage featuring up to 14 x 3.5-inch hard disk drives (HDDs)

- Resilient and flexible system capabilities

Purpose-built with the capacity, performance, and efficiency you need for Big Data workloads, the IBM® System x3650 M4 BD rack server is designed to rapidly analyze enormous volumes of data. This System x® server supports Big Data applications from IBM and independent software vendors (ISVs).

Purpose-built for Big Data workloads

Powered by the latest generation of IBM X-Architecture® technology, the x3650 M4 BD easily manages Big Data, Hadoop-driven workloads. The x3650 M4 BD offers:

- Intel Xeon E5-2600 v2 processors for outstanding performance for Big Data and analytics workloads
- Up to fourteen 3.5-inch hard HDDs, including two rear drives with their own RAID controller, separating the OS from the business data
- Up to 56 TB of internal storage
- 16 DIMMs for optimal memory bandwidth, up to two DIMMs per channel at 1866 MHz
- High IOPS for rapid transaction processing of your Big Data and analytics workloads

Resilient, flexible system capabilities

The x3650 M4 BD incorporates advanced reliability, availability and serviceability features for outstanding uptime. Standard capabilities include redundant and hot-swap power supplies and hard disk drives. Light path diagnostics and Predictive Failure Analysis proactively monitor the server's components and flag problem areas to minimize system downtime and reduce maintenance and unscheduled outages. The IBM Feature on Demand (FoD) function allows you to add new server features remotely and easily—without taking the system out of service. The server offers flexible I/O options and RAID for increased data protection.

This 2U, two-socket server drives cost-savings through its wide operating temperature range and energy-efficient power supplies. And by distributing your Big Data over a cluster of x3650 M4 BD servers, you can leverage the resulting scalability to further reduce your cost per terabyte of storage and total cost of ownership (TCO).

IBM System x3650 M4 BD at a glance

Form factor/height	2U Rack
Processor (max)	Up to two 12-core Intel Xeon E5-2600 v2 series
Cache (max)	Up to 30 MB per processor
Memory (max)	Up to 512 GB via 16 slots (UDIMM/RDIMM/LRDIMM), up to two DIMMs per channel, 1866 MHz LRDIMMs
Expansion slots	Up to 5 x PCIe 3.0 slots
I/O ports	USB: 2 front/4 back/2 internal 1 serial port, 1 VGA port
Disk bays (total/hot-swap)	Up to 12+2 x 3.5-inch hot-swap SATA HDDs, 2.5-inch solid-state drives (SSDs)
Maximum internal storage	Up to 56 TB
Network interface	4x1 Gb, (one dedicated IMM) + 2 x 10 GbE (optional)
Power supply (std/max)	Redundant 750 W/900 W, 80 plus
Hot-swap components	Power supplies and hard disk drives
RAID support	Available with 1, 2, 4 GB‡ Flash and upgradable options (-5,-50,-6,-60), plus separate RAID for rear drives
Systems management	IMM2 with dedicated management port
Operating systems supported	Red Hat Enterprise Linux, SUSE Linux Enterprise Server, [Microsoft Windows Server*, VMware vSphere*]
Limited warranty	3-year customer replaceable unit and onsite limited warranty, next business day 9x5, service upgrades available
Energy efficiency compliance†	ASHRAE and ENERGY STAR® compliance, 80 PLUS® Platinum power supplies

For more information

To learn more about the IBM System x3650 M4 BD, visit:
ibm.com/systems/x/hardware/rack/x3650m4bd/index.html or contact your IBM representative or IBM Business Partner.