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## 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



# IBM System x3650 M4 BD

*2U two-socket Big Data storage server*

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).



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<b>IBM System x3650 M4 BD at a glance</b>	
<b>Form factor/height</b>	2U Rack
<b>Processor (max)</b>	Up to two 12-core Intel Xeon E5-2600 v2 series
<b>Cache (max)</b>	Up to 30 MB per processor
<b>Memory (max)</b>	Up to 512 GB via 16 slots of Samsung UDIMM, RDIMM or LRDIMM Green Memory, up to two DIMMs per channel of Samsung Green DDR3 32 GB, 1866 MHz LRDIMMs
<b>Disk bays (total/hot-swap)</b>	Up to 12+2 x 3.5-inch hot-swap SATA HDDs, 2.5-inch solid-state drives (SSDs)
<b>RAID support</b>	Available with 1, 2, 4 GB Flash and upgradable options (-5,-50,-6,-60), plus separate RAID for rear drives
<b>Power supply (std/max)</b>	Redundant 750 W/900 W, 80 plus
<b>Hot-swap components</b>	Power supplies and hard disk drives
<b>Network Interface Controller (NIC)</b>	4x 1 Gb, (one dedicated IMM) +
<b>Trusted Platform Module (TPM)</b>	2 x 10 GbE (optional)/dedicated TPM
<b>PCIe 3.0 Expansion slots</b>	Up to 3 x PCIe 3.0 slots
<b>I/O ports</b>	USB: 2 front/4 back/2 internal 1 serial port, 1 VGA port
<b>Maximum internal storage</b>	Up to 56 TB
<b>Energy efficiency compliance</b>	ASHRAE and ENERGY STAR® compliance, 80 PLUS® Platinum power supplies
<b>Systems management</b>	IMM2 with dedicated management port
<b>Operating systems supported</b>	Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Microsoft Windows Server, VMware vSphere
<b>Limited warranty</b>	3-year customer replaceable unit and onsite limited warranty, next business day 9x5, service upgrades available

## For more information

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

