IBM System x3850 X5

Maximize memory, minimize cost and simplify deployment

Highlights

- Unmatched flexibility to meet changing workload demands

- Workload-optimized systems with customizable configurations for target workloads

- Achieve greater performance and utilization at a lower total cost

- Keep consolidated workloads up and running with mainframe-inspired reliability

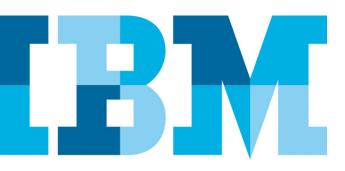- Easy-to-own, simplified power and systems management with an energy-smart design and remote access

Tailored to your workload demands

With rising costs, increasing workloads and demands for 24x7 availability, there's no room in your organization for underutilized or unreliable servers. Built on the next generation of enterprise IBM® X-Architecture® technology and Intel® Xeon® processors, the IBM System x3850 X5 offers superior performance and unbeatable reliability within an energy- and wallet-friendly design. Best of all, it offers ultimate flexibility to help you get what you need, when you need it.

The new x3950 X5 offers simple-to-deploy, preconfigured systems that are optimized for specific workloads. These x3950 X5 Database Optimized Systems offer the right balance of processing power, memory, and high-IOPS storage technology for your database workloads. x3950 X5 Virtualization Optimized Systems with embedded VMware vSphere 4.1 come standard with MAX5 for unmatched memory capacity, allowing you to increase the size and quantity of your virtual machines.

Grow as your business grows

The x3850 X5 server allows freedom of choice with extremely flexible configurations plus memory expansion capabilities. A modular building block design lets you customize your system for current needs while providing the ability to react to changing workloads. Expand your

4-socket, 64-DIMM x3850 X5 to 4 sockets and 96 DIMMs or up to 8 sockets and 128 DIMMs. Reallocate resources as your environment changes. The x3850 X5 meets your needs today, while providing an easy, cost-effective upgrade path to change your environment when you're ready.

Do more with your investments

Eight-core processors and expanded memory capacity let you manage memory-intensive applications with higher utilization and greater throughput and bandwidth. Consolidate older 4U servers on one industry-leading IBM X-Architecture eX5 system for a lower total cost. Optimize your investments with more and larger virtual machines per server and lower licensing costs, while achieving greater business productivity.

Consolidate with confidence

A long-time leader in reliability, many of the features IBM pioneered with earlier generations of X-Architecture have now become industry standards. The x3850 X5 continues to build on this legend, enabling you to consolidate workloads without sacrificing availability—or your peace of mind. OnForever™ features such as redundant power and cooling help minimize the potential for catastrophic business disruption. Other features include enhanced IBM Memory ProteXion™ for greater data integrity, memory mirroring and Predictive Failure Analysis for increased system uptime.

Maximize memory, minimize cost and simplify deployment with the x3850 X5

Own and operate with ease

Consolidated single points of management and an energy-smart design help reduce the time and money needed to run your system. Advanced light path diagnostics and around-the-clock remote access management facilitate ease of use and proactive problem-solving. In addition, IBM Systems Director Active Energy Manager™ helps monitor, measure and manage power consumption to lower the energy draw and costs.

Select configurations of the x3850 X5 are part of the IBM Express Advantage® Portfolio designed to meet the needs of midsized businesses. Easy to manage, Express® models and configurations vary by country.

IBM System x3850 X5 at a glance

Form factor/height	Rack/4U per chassis
Processor (max)	Intel Xeon up to 2.26 GHz (8-core)/1066 MHz memory access
Number of processors (std/max)	2/4 per chassis (up to 2 node)
Cache (max)	Up to 24 MB
Memory (max)	16 GB/1.0 TB max PC3-10600 DDR III
Expansion slots	7 total PCI half-length, (2 hot-plug)
Disk bays (total/hot-swap)	8/8 2.5" Serial Attached SCSI (SAS) or 16/16 SAS SSD
Maximum internal storage	4.0 TB SAS per chassis (supports 8 × 73.4 GB, 146.8 GB, 300 GB and 500 GB hard disk drives or 16 × 50 GB SSDs)
Network interface	10 Gbps Fibre Channel over Ethernet Dual Channel Converged Network Adapter plus integrated dual Gigabit Ethernet with TCP-IP off-load engine
Power supply (std/max)	1975 W 220 V 2/2
Hot-swap components	Power supplies, fans, hard disk drives and solid-state-drives
RAID support	Integrated RAID-0, -1; optional RAID-5
Systems management	Alert on LAN 2, Automatic Server Restart, IBM Systems Director, IBM ServerGuide™, Integrated Management Module (IMM), light path diagnostics (independently powered), Predictive Failure Analysis on hard disk drives, processors, VRMs, fans and memory, Wake on LAN, Dynamic System Analysis, QPI Faildown
Operating systems supported	Microsoft® Windows Server® 2008 (Standard, Enterprise and Data Center Editions 32-bit and 64-bit), 32- and 64-bit Red Hat Enterprise Linux® , SUSE Enterprise Linux, (Server and Advanced Server), VMware ESX Server/ESXi 4.0
Limited warranty	3-year customer replaceable unit and onsite limited warranty

For more information

World Wide Web

U.S. **ibm.com**/systems/x/

Canada **ibm.com**/ca/en/systems/x

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