

Purpose-built for outstanding compute performance at an affordable price



IBM System x3455



Highlights

- **High-performance design to maximize return on your IT investment**
- **Manage growth and risk of dynamic HPC workloads with this scalable and flexible computing solution**
- **Go green and save with new design and tools for optimized power management**

Outstanding performance, affordable price

The IBM System x3455 delivers robust performance in a small package at an affordable price. For scientific, technical and financial applications, the x3455 provides the latest AMD Opteron™ quad-core processors—helping process data more quickly. The x3455 also provides outstanding memory performance with power-efficient DDR II memory and AMD Direct Connect Architecture. And high-performance 3.5" SAS hard disk drives deliver blazing access to data.

Solve problems more quickly

The x3455 addresses traditional high performance computing application bottlenecks with non-traditional,

innovative server architecture. IBM Xcelerated Memory Technology™ allows six DIMMs per processor to run at 667 MHz, which means faster access for large memory configurations. As well, IBM eXtended I/O™ technology featuring a choice of I/O slots means greater flexibility for cluster interconnects.

Energy-efficient features valued by HPC

The x3455 supports AMD's Dual Dynamic Power Management (DDPM) technology for optimum power consumption and increased performance. DDPM's separate power planes for the processing cores and the memory controller means cores will be able to operate at reduced power consumption levels while the memory controller continues to run at full speed. As well, the memory controller can operate at a higher frequency for increased bandwidth and performance.

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IBM System x3455 at a glance

Form factor/height	1U rack server
Processor	Quad-Core AMD Opteron Model 2352, 2356, 2360 SE
Number of processors (std/max)	1/2
Cache (max)	2 MB per socket
Memory¹ (std/max)	2x 1 GB /48 GB PC5300 ECC DDR II SDRAM IBM Chipkill™ 667 MHz via 12 DIMM slots
Expansion slots	PCI-Express (1) x16 standard; optional (1) x8 or (1) HTx
Disk bays (total)	2
Maximum internal storage^{1,2}	1.5 TB SATA II or 600 GB SAS (3.0 Gbps)
Network interface	Integrated dual Gigabit Ethernet
Power-total system input requirements	Visit ibm.com/systems/x for more on the Power Calculator
Power supply	650W capacity
RAID support	Optional RAID-0, -1 for internal drives using the IBM HBA Controller
Remote systems management	Integrated BMC features Serial over LAN (IPMI 2.0-compliant), IBM Director, Cluster Systems Management
Operating systems supported	Microsoft® Windows Server® 2008, Red Hat Linux®, SUSE Linux
Limited warranty³	1-year customer replaceable unit and onsite limited warranty

For more information

U.S.	ibm.com/systems/x
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¹ Maximum internal hard disk and memory capacities may require the replacement of any standard hard drives and/or memory and the population of all hard disk bays and memory slots with the largest capacity supported drives available. When referring to variable speed CD-ROMs, CD-Rs, CD-RWs and DVDs, actual playback speed will vary and is often less than the maximum possible.

² GB and TB = 1,000,000,000 and 1,000,000,000,000 bytes, respectively, when referring to storage capacity. Accessible capacity is less.

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