

A high-performance, energy-efficient blade server for virtualization and memory-intensive HPC applications



IBM BladeCenter LS22



Highlights

- **Run demanding, memory-intensive applications with the latest quad-core AMD Opteron™ blade**
- **Go green and save with energy-efficient design and support for IBM Systems Director Active Energy Manager™**
- **Consolidate workloads by virtualizing on an energy-efficient platform**

The IBM BladeCenter® LS22 is a 2-socket, quad-core blade server delivering high performance for memory-intensive applications and virtualization.

Powerful performance

The LS22 features quad-core AMD Opteron processors, and improved memory and I/O performance—enabling IT managers to run demanding applications or consolidate workloads through virtualization.

Other key benefits:

- *Added internal storage flexibility that includes new solid state drives*
- *Optional expansion blade for hot-swap storage*

- *Up to 32 GB low-power DDR II memory plus the ability to boost remote memory performance by up to 96%¹*

Low energy consumption

With enhanced energy-efficiency, the LS22 reduces energy usage without compromising performance. Its low-voltage DDR II memory helps conserve energy, plus IBM Systems Director Active Energy Manager allows IT managers to monitor and control energy use. Combined with solid-state drives, the LS22 is a high-performing, reliable and low energy-consuming next-generation blade.

Select configurations of the LS22 blade are part of the IBM Express Advantage Portfolio, designed and priced to meet the needs of mid-sized businesses. Reliable and easy to manage, Express models/configurations vary by country.



IBM BladeCenter LS22 at a glance

Processor (max)	Quad-core AMD Opteron™ models 2347 HE and 2356
Number of processors (std/max)	1/2
Cache (max)	1 MB L2 per processor core
Memory² (max)	Up to 32 GB DDR II VLP (800 MHz)
Internal storage	Up to 293.6 GB
Maximum internal storage^{2,3}	293.6 GB internally; up to 734 GB with Storage and I/O Expansion blade installed; up to 62.8 GB using solid-state drives
Network	2 integrated Gigabit Ethernet controllers
I/O upgrade	1 PCI-X expansion connector and 1 PCI-Express expansion connector
Systems management hardware	Integrated systems management processor
Dimension	30 mm single-slot blade
Max blades per chassis	BladeCenter E 14, BladeCenter H 14, BladeCenter S 6, BladeCenter T 8, BladeCenter HT 12
Operating systems	Microsoft® Windows®, Linux®, VMware, and Sun Solaris
I/O ports (max)	8
Limited warranty⁴	3-year customer replaceable unit and onsite limited warranty

For more information

World Wide Web

U.S.

ibm.com/systems/bladecenter

Canada

ibm.com/systems/ca/en/

bladecenter

¹ January 2008. IBM System x and BladeCenter Internal Performance Testing Team. The configuration used was an LS22 blade with two 2.3 GHz AMD Opteron processors and 32 GB of memory with the IBM memory booster.

² 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 currently 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.

³ When referring to storage capacity, GB = 1,000,000,000 bytes and TB = 1,000,000,000,000 bytes. Accessible capacity is less.

⁴ IBM hardware products are made from new parts or new and serviceable used parts. Regardless, our warranty terms apply. For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC 27709, Attn: Dept. JDJA/B203. IBM makes no representation or warranty regarding third-party products or services, including those designated as ServerProven® or ClusterProven®.

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August 2008
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