

Innovative, scalable SMP blade with the ultimate performance capacity for HPC and virtualization



IBM BladeCenter LS42



Highlights

- ***Run demanding memory-intensive applications on a scalable 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 that can scale***

Organizations need powerful servers that integrate with existing systems and can grow as business grows. The IBM BladeCenter® LS42 delivers enhanced processing power, energy efficiency and scalability. It's the right choice for memory-intensive applications, including virtualization, database and server consolidation.

Powerful performance

The LS42 features quad-core AMD Opteron processors for increased processing power, enabling IT managers to run demanding applications or consolidate workloads through virtualization.

Other key benefits:

- *Innovative modular design can scale up to four sockets*
- *Optional expansion blade for hot-swap storage*
- *Up to 64 GB of low-power DDR II memory running at 800 MHz*

Go green and save

With features such as high-efficiency processors, an integrated memory controller and solid-state drives, the LS42 maintains low power and thermal envelopes for enhanced energy efficiency.

Select configurations of the LS42 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 LS42 at a glance

Processor	Quad-core AMD Opteron processor 8347 HE and 8356
Number of processors (std/max)	1/4
Cache (max)	1 MB L2 per processor core
Memory¹ (max)	Up to 64 GB DDR II VLP (800 MHz)
Internal storage	Up to 293.6 GB
Maximum internal storage^{1,2}	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 interface	2 or 4 integrated Gigabit Ethernet controllers
I/O upgrade	2 PCI-X expansion connectors and 1 PCI-Express expansion connector
Systems management hardware	Integrated systems management processor
Dimension	30 mm single-slot blade or 60 mm double-slot blade
Max blades per chassis	BladeCenter E: 7 or 14, BladeCenter H: 7 or 14, BladeCenter S: 3 or 6, BladeCenter T: 4 or 8, BladeCenter HT: 6 or 12
Operating systems supported	Microsoft® Windows®, Linux®, VMware
I/O ports (max)	8 or 12
Limited warranty³	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/](http://ibm.com/systems/ca/en/bladecenter)

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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 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.

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

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