

IBM BladeCenter HS21

**Advantages
Hardware****Product details****Overview** | [Features & benefits](#) | [Specifications](#) | [Price & models](#) |**Highlights**

- Fast, easy installation and maintenance to help protect your IT investment
- Integrates well into any chassis for enhanced flexibility
- Helps reduce power and cooling costs without sacrificing performance

A flexible, integrated solution

Organizations need reliable servers that offer consistent performance with minimal maintenance. IBM BladeCenter® HS21 is simple to install and maintain, integrates into all BladeCenter chassis at power-efficient envelopes and offers key features for fewer maintenance hassles, such as:



- Predictive Failure Analysis®, light path diagnostics and an integrated System Management Processor for more accurate problem-solving.
- Remote management from a single graphical console with IBM Director for automated tasks.

Product features

- Revolutionary blade form factor delivers flexibility and simplicity for the data center
- Integrated System Management Processor, light path diagnostics, and Predictive Failure Analysis combine to provide powerful management capabilities
- IBM Director provides remote management from a single graphical console—helping simplify and automate IT and networking tasks
- Easily add or change blades without disrupting the operation of other blades installed in the chassis

Hardware summary

- Features up to two high-performance Dual-Core or Quad-Core [Intel® Xeon®](#) Processors
- 1 GB standard/16 GB maximum memory per blade (32 GB with Memory and I/O Expansion Unit)
- Two Gigabit Ethernet controllers standard, with load balancing and failover features, up to eight Ethernet ports per blade optional
- Expansion capabilities for iSCSI, 2 Gb or 4 Gb Fibre Channel, Gigabit Ethernet, Myrinet, and 1X or 4X InfiniBand®

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|--|---|
| Processor (max) | Dual-Core Intel® Xeon® up to 3.0 GHz or Quad-Core Intel Xeon up to 3.16 GHz and up to 1333 MHz front-side bus |
| Number of processors (std/max) | 1/2 |
| Cache (max) | 6 MB L2 shared (dual-core) or 2x6 MB L2 (quad-core) |
| Memory¹ (max) | Up to 16 GB with Fully Buffered DIMMs (internal) and up to 32 GB with Memory and I/O Expansion Unit |
| Internal hard disk drives | Up to two Small Form Factor (2.5") 10,000rpm SAS hard disk drives installed on each blade (support for up to three hot-swap SAS drives with optional Storage and I/O blade) |
| Maximum internal storage^{1, 2} | 734 GB (with optional Storage and I/O blade) |
| Network interface | Dual Gigabit Ethernet (TOE capable), up to 8 ports optional |
| I/O upgrade | 1 PCI-X expansion card connection (traditional) and 1 PCI-Express (high-speed) |
| RAID support | Integrated RAID-0 or -1 standard, integrated RAID-1E or RAID-5 optional with Storage and I/O blade |
| Systems management | Integrated system management processor |
| Operating systems supported | Red Hat Linux®, SUSE Linux, VMWare ESX Server, Microsoft® Windows Server®, Open Enterprise Server (NetWare 6.5) and SUN Solaris 10 |

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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