IBM BladeCenter HX5

Unprecedented flexibility, processing power, memory and I/O capacity in a blade server

Highlights

- Provide optimal performance for your demanding virtualization and database applications

- Reduce qualification time by standardizing on same system for two- and four-socket server needs

- Scale memory without adding CPUs or software licenses

- Get faster time to value by deploying workload-optimized systems

Maximize memory

Going beyond the industry standards with unique innovations from fifth-generation IBM® X-Architecture® technology (eX5), the new IBM BladeCenter® HX5 enables unprecedented performance and utilization in a blade form factor for database and virtualization. With MAX5 scalability, the HX5 blade offers memory capacity of up to 320 GB—in double-wide blade. The result is optimal server utilization with more virtual machines per system and larger and faster databases.

Minimize cost

With MAX5, HX5 offers the most memory of any server in its class. Reduce software license costs by expanding memory capacity with MAX5 without purchasing additional processors.

Easy to own, manage and upgrade with pay-as-you-grow expansion, the HX5 blade server helps protect your investments over the long term. Capabilities such as advanced light path diagnostics, error handling and around-the-clock remote access management help simplify systems management and minimize downtime. Automatic node failover and QPI faildown help promote greater system uptime. In addition, an energy-smart design and IBM Systems Director Active Energy Manager™ help lower power consumption and costs.

Simplify deployment

Flexible configurations make it easy to implement the right system. Get up and running up to four times faster by standardizing on a single platform for two- and four-socket server needs. Harness the MAX5 module to boost memory without adding processors or software license costs. And flexible, no-touch node partitioning from four processors to two lets you optimize licensing and other operational costs.

Select configurations of the HX5 blade 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 BladeCenter HX5 at a glance

Form factor/height	Singlewide (30 mm) – double-wide (60 mm)
Processor (max)	Intel® Xeon® 7500 and 6500 processors; 4/6/8 cores, up to 2.66 GHz Up to 2 processors per single-wide HX5; scalable to 4 processors
Number of processors (std/max)	1/2 (scalable to 4)
Cache (max)	Up to 24 MB per processor (8 core)
Memory (max)	16 DDR-3 VLP DIMM slots, capacity up to 128 GB, per single-wide HX5 (scalable up to 320 GB max, at speeds up to 1067 MHz, via 40 DIMM slots, using a MAX5 expansion blade)
Expansion slots	1 CIOv slot (standard PCIe daughter card) and 1 CFFh slot (high-speed PCIe daughter card) for total of 8 ports of I/O to each blade, including 4 ports of high-speed I/O Scalable up to 16 ports of I/O in 4-socket, double-wide form factor
Disk bays (total/hot swap)	2 non-hot-swap bays supporting solid-state drives per single-wide HX5
Maximum internal storage	Up to 100 GB of solid-state storage per single-wide HX5 (with 50 GB SSDs)
Network interface	Broadcom 5709S onboard NIC with dual Gigabit Ethernet ports with TOE
RAID support	Optional RAID-0, -1, -1E
Systems management	Integrated systems management processor
Operating systems supported	Microsoft® Windows®, Red Hat Linux®, SUSE Linux, VMware
Limited warranty	3-year customer replaceable unit and on-site limited warranty

For more information

World Wide Web

U.S. **ibm.com**/bladecenter/

Canada **ibm.com**/systems/ca/en/servers/bladecenter

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