

Modular, integrated technologies providing advanced flexibility and manageability



IBM @server® BladeCenter overview



Highlights

- **Leverage advanced, integrated technology that lets you quickly expand functionality as needed**
- **Gain flexibility to choose the applications, operating systems and configurations that suit your business needs**
- **Take advantage of advanced management tools like IBM Director software, enabling comprehensive management of the IBM @server® BladeCenter® solution**

In today's on demand world, it seems everyone is asking more from you—your customers, business partners and even your competitors. More products and services. 24x7 availability. The ability to change focus or direction at a moment's notice. In such an environment, you need to demand more from your IT systems.

Today's marketplace is requiring you to become an on demand business. And BladeCenter can help you answer the call, delivering an easy-to-use, integrated platform with a high degree of flexibility, scalability and manageability—all helping you keep your focus where it should be—on your business.

A range of servers, a range of needs

BladeCenter offers 2-way and 4-way rack-optimized configurations. Supporting the Intel® processor-based IBM @server BladeCenter HS20 and HS40, BladeCenter is designed to accommodate many different business requirements, from collaboration and compute-centric applications on HS20 blades, to commerce or database applications on HS40 blades.

Visit

ibm.com to locate an IBM reseller or for more information.

Integrated technologies support innovation

As the marketplace continually shifts and business needs change, your business priorities and systems will need to shift with them. BladeCenter helps facilitate these changes with a modular, integrated design, giving you the functionality, computing power and capacity you need, when you need it—helping improve responsiveness and efficiency. BladeCenter includes:

Choice of processing platforms

Choose from the 2-way offering, the HS20 blade, featuring high-performance Intel® Xeon™ Processors or the 4-way HS40 blade based on the Intel® Xeon™ Processor MP. All provide computing power to meet varied solution requirements and diverse computing workloads.

Switching, Ethernet and Fibre Channel technologies

Providing a wide selection of integrated switching options, BladeCenter systems help you lower Total Cost of Ownership (TCO) by eliminating the need to purchase additional KVM, Ethernet and

Fibre Channel switches, or the cumbersome and expensive cabling they require. BladeCenter is an industry leader in providing flexibility and choice—excelling at integration with components that fit into your infrastructure and deliver a comprehensive blade solution.

Support for 32- or 64-bit applications

Models of the HS20 blade with Intel® Extended Memory 64 Technology (Intel® EM64T) provide a smooth transition to 64-bit applications without sacrificing the price/performance of the existing ecosystem.

Management tools

Integrated management tools like IBM Director and IBM Remote Deployment Manager help simplify administration to help lower costs and improve control of the data center—without having to buy extra tools to manage the system.

Open specifications

IBM has made public the design specifications for BladeCenter allowing partner companies to easily design compatible networking switches, blade

adapter cards (daughter cards), and appliance and communications blades for the platform. The open BladeCenter design specifications are intended to harness the development power of the industry and deliver an even more comprehensive solution to customers.

IBM Express Portfolio

Select blades and common configurations of BladeCenter are part of the IBM Express Portfolio™, designed, developed and priced to meet the specific needs of mid-sized businesses. The IBM Express Portfolio of solutions are easy to acquire, install and manage.

Power and cooling benefits

BladeCenter's superior density and feature set are made possible by its innovative chassis architecture. Because BladeCenter uses super energy-efficient components and shared infrastructure architecture, clients can realize lower power consumption when compared to most comparable alternative, non-blade server designs. Less power consumption and Calibrated Vecteded Cooling™ allow more servers to fit in a tight power or cooling environment.



Up to 14 2-way HS20 blades can fit in the BladeCenter chassis



Up to 7 4-way HS40 blades can populate the BladeCenter chassis

ON DEMAND EXPRESS PORTFOLIO™
BUILT FOR MID-SIZED BUSINESS.

BladeCenter's highly integrated, modular architecture provides the high performance, manageability and flexibility of rack-optimized platforms and helps you:

- *Optimize resource productivity with functionality, available as needed*
- *Deploy computing resources dynamically to meet varying workload requirements*
- *Expand computing power economically with pay-as-you-grow scalability*
- *Help lower IT costs and TCO by providing complete functionality in one integrated, flexible system*
- *Harness control of the data center by simplifying solution management with powerful IBM tools*

Flexible systems give you room to grow

BladeCenter provides a high degree of flexibility to accommodate changing business and IT needs. This highly adaptable ecosystem offers:

- *Support for countless applications and a wide range of operating systems, including Microsoft® Windows®, Novell NetWare and Linux®—letting you use the operating system that best suits your needs*



BladeCenter delivers an effectively managed infrastructure that helps maximize resource productivity and minimize IT and network administration costs.

- *Accommodate a multitude of different functions like high-performance research, databases, digital rendering or collaboration, all in the same BladeCenter*
- *2-way and 4-way scalability, enabling you to scale up or out depending on your organization's computing requirements*
- *Flexible storage options, including internal drives or attachment to external storage such as a Storage Area Network or Network Attached Storage*
- *Capability to add industry-standard PCI cards via addition of a PCI Expansion Unit*

Simplified IT solutions let you focus on core goals

IBM has engineered BladeCenter with ease-of-use in mind, making administration simpler and more cost-effective—so skilled IT staff can be deployed to other strategic needs. With new support for Linux and open industry standards, IBM Director software is even more flexible to manage activity across blades and systems.

IBM Director gives you comprehensive remote management from a single graphical console. The integrated software automates and simplifies IT and networking tasks, letting you deploy, configure, manage and maintain up to hundreds of servers.

With IBM Director you can enjoy:

- *Advanced management capabilities that help boost productivity, lower skill requirements and reduce costs*
- *Simplified blade installation using IBM Deployment Wizard, allowing you to save chassis configurations for easy replication and complete installation in as little as a few minutes*
- *Capability to create, maintain and deploy images from a single drag-and-drop user interface using Remote Deployment Manager*
- *Potentially reduced administration costs through tools such as Predictive Failure Analysis® and light path diagnostics, helping keep systems available and at peak performance*



The 2-way HS20 Blade includes models that support Intel Extended Memory 64 Technology, supporting transition to 64-bit applications.

For more information

World Wide Web

U.S.	ibm.com/servers/eserver/bladecenter
Canada	ibm.com/pc/ca/eserver/xseries/bladecenter_family.shtml

Reseller locator and general information

U.S.	1 800 426-4968
Canada	1 800 426-2255

ibm.com/pc/us/businesspartner



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