

Reduce complexity and optimize flexibility with the world's first
POWER5 processor-based server



IBM @server i5 520



Small and midsized companies want to focus on their business and not their IT infrastructure. The IBM @server i5 520 server—a new member of the IBM @server iSeries™ family—can deliver not only the power and capacity to run core business applications, but also the ability to add new e-business applications.

Advanced virtualization technologies allow the IBM @server i5 520 to run multiple operating systems and applications environments simultaneously—including IBM i5/OS™, Linux®, IBM AIX 5L™, Microsoft® Windows Server System™ and Lotus® Domino® software. By supporting multiple operating environments, the IBM @server i5 can enable companies to deploy a broad selection of new applications and consolidate operations on a single highly flexible, resilient server with outstanding price/performance.

Highlights

- ***Extends the iSeries technology's legendary security, reliability and customer satisfaction***
- ***Manages multiple operating systems and application environments on a single server to help reduce complexity and lower management costs***
- ***Streamlines processes and deploys business applications faster through the i5/OS integrated, pre-tested database and middleware***
- ***Enables companies to deliver business-critical applications through advanced self-management features***
- ***Offers greater flexibility for small and midsized businesses***

IBM @server i5 servers can help companies reduce complexity, simplify their IT infrastructures and potentially reduce their total cost of ownership (TCO). With multiple growth options and upgrades available, companies can start small and expand their IBM @server i5 520 server as their needs grow. The @server i5 520 delivers superior customer value on a single server.

Simplify your IT infrastructure and run virtually any application

The IBM @server i5 520 is designed to simplify IT infrastructures by running multiple applications and multiple operating systems concurrently on a single server. With the capacity to support up to ten dynamic logical partitions (LPARs) per processor, the 520 can provide extensive flexibility for businesses running applications in a variety of operating environments. Running several operating environments on the same server can reduce the management cost and difficulty compared to a typical server farm—and in turn—deliver faster return on investment and lower cost of ownership.

In addition, IBM @server i5 servers incorporate IBM Virtualization Engine™ systems technology, which is designed to pool resources and optimize their use across multiple applications and operating environments. Through advanced dynamic partitioning capabilities, IBM @server i5 servers can help support easy administration and rapid adjustment to changing business priorities—giving companies the freedom to run a wide variety of business applications without the costs and complexity often associated with managing multiple servers.

Based on IBM POWER5™ processors—the ninth generation of IBM 64-bit processor technology—IBM @server i5 servers can enable small and midsized businesses to seamlessly upgrade their processing power while continuing to take advantage of their investments in storage and networking infrastructure. The proven, open and flexible design of POWER processors builds on the iSeries tradition of integration, reliability and

outstanding systems management technology to bring new levels of functionality and simplicity to today's on demand world.

Enhance productivity by consolidating Windows-based servers

Many small and midsized businesses run Microsoft Windows® based applications on multiple Intel processor-based servers. To help companies simplify their IT infrastructures, enhance manageability and boost productivity, IBM @server iSeries family servers offer two options for consolidating Intel® processor-based servers: attaching external IBM @server xSeries® servers using Integrated xSeries Adapters or installing the Integrated xSeries Server directly inside the IBM @server i5 server. With these options, clients can benefit from both the security and reliability of IBM @server i5 servers and the flexibility to run Windows-based applications on the same system.

The virtualization capabilities of the IBM @server i5 server also allow clients to share disks, tapes and DVDs with Windows based servers—making the @server i5 the central storage and backup/recovery server. The advanced IBM @server i5 storage architecture can provide more flexibility than conventional Windows based server implementations, in which dedicated disk drives are typically attached to every server and a network administrator must manage each server's capacity separately. With the IBM @server i5 server, all disks can be managed as a single pool of RAID-5 or mirrored, protected storage—helping to improve productivity by simplifying data administration and boosting storage utilization rates.

Protect business continuity and deliver without disruption

Application requirements will expand as companies grow. Businesses need intuitive, optimized management facilities

every step of the way. A range of workload management features incorporated into IBM @server i5 servers can help organizations meet these challenges by adjusting workloads and performance dynamically—even automatically—in response to constantly shifting business priorities. The workload management tools incorporated into i5/OS give companies the option to run multiple subsystems, allowing administrators to enhance productivity by balancing the processing priorities for different applications running within the same operating system (OS) image.

Advanced technology built into IBM @server i5 servers can help automate monitoring to promote high availability and prevent downtime. For example, the server can proactively alert IBM to problems—often without requiring human intervention. In some cases, IBM may even be able to correct errors before an administrator spots them, greatly reducing troubleshooting time, lowering staffing costs and limiting service interruptions.

Select from a range of flexible options

The IBM @server i5 520 is offered in a wide range of versatile choices. The 520 provides a choice of 1-way or 2-way IBM POWER5 processors starting at 500 CPW (Commercial Processing Workload) and ranging up to 6000 CPW; up to 32GB of memory; and 19TB of disk storage. The base configuration offers the ability to add features and capabilities as your business needs change, while other options come complete with licensing for e-business and data management tools, the ability to run 5250 On Line Transaction Processing (OLTP) applications, and many additional features.

In addition, the @server i5 520 makes an ideal entry-level server for clients that run traditional OS/400 and i5/OS applications and want the flexibility to add new features and applications as necessary.

Description						
Model	IBM @server i5 520	IBM @server i5 520	IBM @server i5 520	IBM @server i5 520	IBM @server i5 520	IBM @server i5 520
Processor	1-way POWER5	1-way POWER5	1-way POWER5	1-way POWER5	1-way POWER5	2-way POWER5
Server Feature	0900	0901	0902	0903	0904	0905
Processor CPW	500	1000	1000	2400	3300	6000
5250 OLTP CPW	30	60	0 or max	0 or max	0 or max	0 or max
Memory (max)	32GB	32GB	32GB	32GB	32GB	32GB
Disk Capacity (max)	19TB	19TB	19TB	19TB	19TB	19TB
Disk Drives (max)	278	278	278	278	278	278
i5/OS Included	Yes	Yes	Yes	Yes	Yes	Yes
Software Tier	P05	P10	P10	P10	P20	P30
Windows Server², Linux, AIX 5L Capable	Yes	Yes	Yes	Yes	Yes	Yes
Tower or Rack Design	Both	Both	Both	Both	Both	Both
Integrated xSeries® Servers (max)	18	18	18	18	18	18
Integrated xSeries Adapters (max)¹	8	8	8	8	8	8
LPARS (max)	2 (i5/OS, Linux, or AIX 5L)	4 (i5/OS, Linux, or AIX 5L)	4 (i5/OS, Linux, or AIX 5L)	10 (i5/OS, Linux, or AIX 5L)	10 (i5/OS, Linux, or AIX 5L)	20 (i5/OS, Linux, or AIX 5L)
High Speed Link (RIO/HSL) Loops (max)	1	1	1	1	1	1
I/O Towers/Drawers (max)¹	6	6	6	6	6	6
PCI Cards Slots (max)	90	90	90	90	90	90
LAN Ports (max)	36	36	36	36	36	36

¹ The installed combination of I/O Towers and Integrated xSeries Adapters cannot exceed 9.

² via an IXA or IXS

For more information

To learn more about the IBM @server i5 520 server, please contact your IBM representative, IBM Business Partner or visit the following Web sites:

ibm.com/eserver/series



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