

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



IBM @server i5 520



Highlights

- **Manage multiple operating systems and application environments on a single server to help reduce complexity and lower management costs**
- **i5/OS™ (the next generation of OS/400) helps streamline processes and deploy business applications faster with its integrated, pre-tested database and middleware**
- **Choose from a broad array of proven, industry-leading applications based on i5/OS, Linux, AIX 5L and Microsoft Windows**

Geared for the constantly changing requirements of small and midsize businesses, the IBM @server i5 520 server—the most recent 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 on the same server. IBM @server i5 servers can help companies reduce complexity, simplify their IT infrastructures and 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.

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 new applications and consolidate operations on a single highly flexible, resilient server with outstanding price/performance.

Simplify your IT infrastructure and run virtually any application

Traditionally, organizations running multiple applications used separate servers for each new application. However, as their server farms grew, these companies discovered that the one server/one application approach could result in complex, difficult-to-manage IT infrastructures—resulting in decreased productivity and increased cost.

The IBM @server i5 520 is designed to simplify IT infrastructures by running multiple applications and multiple operating systems concurrently. Running several operating environments on the

same server can facilitate server consolidation—helping to decrease complexity, enhance manageability and promote low TCO. 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.

In addition, IBM @server i5 servers incorporate IBM Virtualization Engine™ technology, which is designed to pool resources and optimize their use across multiple applications and operating environments. Through advanced dynamic LPAR 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.

Protect critical IT investments

IBM POWER microprocessors have set the industry pace with a long history of system experience. Known for high performance, greater flexibility and unmatched reliability, they are leading the way into an on demand environment.

As the industry's first servers based on IBM POWER5™ processors—the ninth generation of IBM 64-bit processor technology—IBM @server i5 servers can enable small and midsize 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.

Integrate to innovate

On demand computing requires the tools to build e-business applications and modernize legacy applications for the Web. Staying competitive means reacting at the pace of e-business—which is why IBM @server i5 520 servers include a suite of tools to support integrated Web enablement. Integrated database, storage and application development tools can help lower acquisition costs, speed deployment and further enhance manageability.

At the heart of every IBM @server i5 server is vital middleware like IBM DB2 Universal Database™ (UDB) software. i5/OS complements DB2 UDB by supporting a comprehensive set of Open and SQL standards, allowing outstanding flexibility and code portability. Extended data partitioning enables companies to perform scheduled maintenance and easily switch database objects to other systems, helping to minimize interruptions to normal operations for high resiliency.

The IBM @server i5 520 also integrates networking software—including TCP/IP, virtual private network (VPN) capability and an HTTP server (powered by Apache)—to help organizations connect more securely to the Web. IBM WebSphere® Application Server—Express for iSeries (WAS Express), shipped with every IBM @server i5 520 server, is designed to enable businesses to deploy Java™-based applications on the Web. In addition, integrated Lotus Domino and Lotus Workplace products can help boost employee productivity with e-mail, groupware applications and instant messaging.

Enhance productivity by consolidating Windows-based servers

Many small and midsize businesses run Microsoft Windows®-based applications. 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 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. 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 grow as companies expand, and businesses need intuitive, optimized management facilities every step of the way. Every IBM **@server** i5 server is delivered with the future in mind—designed to adapt to disruptive technology changes and deliver increased capability and capacity. Self-managing features on IBM **@server** i5 servers also can help businesses avoid the expense of changing their applications and processes.

A range of workload management features incorporated into IBM **@server** i5 servers can help organizations adjust workloads and performance dynamically—even automatically—to meet 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 autonomic 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.

In addition, iSeries Navigator provides a simple Graphical User Interface (GUI) for managing both IBM **@server** i5 and Windows-based servers. Using this tool, administrators can stop and start servers, enroll i5/OS users in a Windows domain and perform storage management tasks. iSeries Navigator for Wireless also enables administrators to view server status and run Windows commands for Integrated xSeries Servers from a Web-enabled cell phone, personal digital assistant (PDA) or Web browser.

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.

Choose from thousands of available applications

With the IBM @server i5 520 server, clients can choose from a vast array of industry-leading software solutions designed for many different OS environments, such as i5/OS, Windows Server,

Linux and AIX 5L, and tailored for small and midsize businesses. A global network of independent software vendors (ISVs) offers an outstanding portfolio of enterprise resource planning (ERP), e-business, customer relationship management (CRM), supply chain management (SCM), business intelligence (BI) and human resource management applications—plus industry-specific solutions such as core banking applications. These proven solutions help clients simplify deployment and help lower TCO by providing proven solutions tested to run on iSeries family servers.

Rely on a tradition of total support

IBM delivers outstanding customer support—even before the initial installation of an iSeries server—with Technical Support Advantage: comprehensive technical service and support that helps clients learn about, choose and implement the right IT solutions based on

specific business requirements. IBM experts can help with business and IT consulting, business transformation and total systems management services, as well as customized solutions. Quick access to technical information and tools is also available through the Web.

Take advantage of flexible financing options

To help clients acquire and optimize the value of their systems, software and services, IBM Global Financing provides flexible financing structures, highly competitive rates and superior product and investment enhancement.

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 Server Capable	Yes	Yes	Yes	Yes	Yes	Yes
Linux Capable	Yes	Yes	Yes	Yes	Yes	Yes
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)	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 (max)	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

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/iserics



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