



**GEMKO Information Group, Inc.**  
*Information Systems Specialists*



- ERP
- CRM
- Supply Chain
- e-business



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**IBM @server i5 servers for  
small and medium-sized businesses**



## Highlights

- *Integrated management of multiple operating systems and application environments can help simplify complex IT infrastructures and provide versatility to run the best mix of applications for the business*
- *Self-managing, self-healing features help protect business flexibility and enables companies to deliver business critical applications more easily*
- *An affordable entry price and simple upgrades enable infrastructure to grow with changing business needs*

Becoming a successful On Demand Business requires that companies of all sizes embrace change and adapt to shifting market conditions in real time. Customers expect quality service 24 hours a day, 7 days a week in every time zone—which means that the IT infrastructure supporting key systems must offer unprecedented performance and flexibility, mainframe-level reliability, outstanding management capabilities and low total cost of ownership (TCO). For small and medium-sized businesses trying to maintain business flexibility on limited IT budgets, these requirements can be daunting.

IBM **@server**® i5 520 and 520 Express systems, the latest members of the iSeries family, can help companies satisfy these requirements with support for multiple operating systems on a single platform, innovative IBM Power Architecture™, centralized management tools, self-managing features, legendary IBM support and flexible financing options. These aggressively priced 1- to 2-way servers extend IBM POWER5™ capabilities to the small

and medium-sized business to address diverse computing needs and help provide investment enhancement. In addition, four highly versatile editions help maximize business value with software licensing and hardware features designed to help meet the particular business demands of small and medium companies.

### **Run virtually any application**

The IBM **@server** i5 servers are designed to help small and medium-sized businesses simplify infrastructures and enhance flexibility by running multiple operating systems and applications concurrently—including IBM i5/OS™ (the latest generation of OS/400™), Linux®, Microsoft® Windows® (via an IXA or IXS), 5250 online transaction processing (OLTP), Java™, IBM AIX 5L™, IBM WebSphere® and Lotus® Domino® software. Running multiple operating systems on the same server can facilitate server consolidation, which can help decrease complexity, enhance manageability and promote low total cost of ownership (TCO).

To help companies simplify their Intel® processor-based systems, enable resource virtualization and enhance manageability, IBM @server i5 servers offer two options for consolidation: attaching external IBM @server xSeries® servers to the IBM @server i5 server using Integrated xSeries Adapters or installing the Integrated xSeries Server directly inside the IBM @server i5 server. With these options, clients can have both the reliability and power of iSeries servers and the flexibility to run Windows-based applications on the same system.

In addition, IBM @server i5 servers incorporate dynamic logical partitioning, part of IBM Virtualization Engine™ systems technology, which is designed to pool resources and optimize their use across multiple application environments and operating systems. Through

advanced dynamic logical partitioning (LPAR) capabilities, IBM @server i5 servers can dynamically allocate system resources to 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.

#### **Build upon critical IT investments**

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

As the industry's first product line based on 64-bit IBM POWER5 processors, IBM @server i5 servers enable businesses to easily upgrade their process-

ing power while continuing to use their investments in storage and networking infrastructure. Clients can run 32-bit and 64-bit applications simultaneously on the same system without experiencing artificial performance limits. The proven, open and flexible design of POWER processors builds on the iSeries tradition of integration, virtualization and outstanding systems management technologies to enable companies to upgrade and adapt their systems as their business needs change.

With improved cache performance, faster memory access and higher density compared to IBM POWER4™ processors, the POWER5 processor is IBM's most powerful 64-bit microprocessor offering. In addition, new simultaneous multi-threading (SMT) capabilities can further lower the cost of computing by providing greater processing efficiencies compared to earlier generations of POWER processors.





### **Support highly resilient operation with self-managing features**

IBM @server i5 systems are designed to help businesses deliver critical computing capabilities without disruption. Autonomic technology built into these servers can help automate monitoring to promote high resiliency 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 four highly versatile editions**

Designed specifically to meet the needs of small and medium-sized businesses, IBM @server i5 520 and 520 Express servers can help businesses reduce data center complexity, simplify their IT infrastructures and effectively manage IT service level commitments. To help maximize business value, these servers

come in four flexible packages: the Express, Value, Standard and Enterprise editions. Each edition incorporates a set of software licensing and hardware features designed to help meet the particular business demands of small and medium companies.

The Express Edition, preconfigured based on the most popular requirements of small businesses, includes key middleware products such as IBM @server iSeries Access and IBM WebSphere Development Studio. With a la carte features, the Value Edition can provide extensive flexibility and cost-efficiency for organizations seeking a server that can support highly specific requirements.

The Standard Edition offers a base configuration that includes i5/OS, supports Web-based applications (including modernized 5250 OLTP applications) and is designed to run multiple operating systems and dynamic logical partitions. With the option to add features

as requirements shift, this edition can provide outstanding versatility for companies looking to start small and grow as their needs change.

The Enterprise Edition extends the capabilities of the Standard Edition with a range of additional software and hardware features, including:

- Licensing for popular software such as IBM WebSphere Portal Express Plus
- DB2 Universal Database™ (UDB)
- IBM Service Vouchers

### **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 operating system-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.



### **Choose from thousands of available applications**

With support for multiple operating systems and application environments on IBM @server i5 servers, clients can choose from a vast array of industry-leading software solutions tailored for small and medium-sized companies. A worldwide network of independent software vendors (ISVs) offers an outstanding portfolio of enterprise resource planning (ERP), 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 applications can simplify deployment and help lower TCO by providing proven solutions tested to run on iSeries servers.

### **Rely on a tradition of total support**

IBM delivers outstanding support—even before the initial installation of an IBM @server i5 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.

IBM stands behind its commitment to provide the highest possible customer satisfaction for every system sold. A worldwide team of more than 100,000 dedicated technical support experts is available 24 hours a day to supply its knowledge and experience to IBM @server i5 clients. Advanced maintenance and diagnostic capabilities built into every IBM @server i5 server allow remote service, enabling enhanced availability and reducing management overhead. Quick access to technical information and tools also is available through the Web.

In addition, IBM goes a step beyond technical support by offering consulting services designed to assist organizations in maximizing the resources of their IBM @server i5 server. IBM Global Services can facilitate integration, provide optimization advice and assist in application development, thereby helping businesses harness the uncompromising power and reliability of the IBM @server i5 product line.

#### **Choose from flexible financing options**

IBM Global Financing provides single-source financing for complete, multivendor IT solutions that can include hardware, software and services. By consolidating your IT acquisitions into a single financing contract and single, periodic invoice, you can budget more effectively, manage your costs more efficiently and simplify infrastructure planning.

Financing from IBM Global Financing can make acquiring complete, multivendor IT solutions less expensive through competitive rates, fair-market-value leases, innovative offerings and special financing promotions. On demand financing offerings can allow your company to structure payment schedules to accommodate cash flow, while enabling capacity adjustments to handle changes in demand. In addition, low-rate financing helps make a wide range of IBM products and services more affordable, with flexible payment plans and rates that are frequently below market.

#### **A single server for your business, today and tomorrow**

With the ability to support a wide spectrum of operating systems and application environments and an impressive suite of integrated tools, IBM @server i5 servers can deliver outstanding versatility and ease of use. Self-managing



capabilities help reduce administration time and expense, while an innovative design and industry-leading POWER5 processor technology help maintain high reliability and availability for critical applications. For these reasons, IBM @server i5 servers can help businesses simplify complex infrastructures, integrate business processes with external customers and suppliers and deliver business value without disruption—key requirements for becoming an On Demand Business.

	<b>IBM @server i5 520 Express</b>	<b>IBM @server i5 520</b>
Available Editions	Express	Value, Standard and Enterprise
Commercial Processing Workload (CPW)	500 or 1000	500 – 6000
5250 OLTP CPW	30 or 60	0 - maximum
Memory (max)	32GB	32GB
Disk Capacity (max)	19TB	19TB
Disk Drives (max)	278	278
i5/OS Included	Yes	Yes
IBM WebSphere Development Studio	Yes <sup>1</sup>	No
IBM @server iSeries Access	Yes <sup>1</sup>	No
Linux, Windows and AIX 5L Capable	Yes	Yes
Tower or Rack-Optimized Design	Both	Both
Integrated xSeries Servers/Integrated xSeries Adapters (max)	18/8	18/8
LPARs (i5/OS, Linux or AIX 5L – max)	4	20

<sup>1</sup> WebSphere Development Studio and iSeries Access is included with selected processors of the @server i5 520 Express Edition.





### For more information

To learn more about IBM @server i5 servers for small and medium-sized businesses, please contact your IBM representative or visit [ibm.com/eserver/series](http://ibm.com/eserver/series).

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