

One business system for virtually any application, exceptional price/performance



IBM System i5 520 Express



Bottom line:

Many small- and mid-sized companies are facing the challenge of an overly complex IT environment. As your business grows, your computing needs increase. Implementing new applications can mean adding more servers, which increases spending and staffing requirements. Now more than ever, you need a system that can help you become more responsive to your customers, improve productivity, operate without interruption and secure your data and systems—all without making large upfront investments in time, skills or money. You need a business system that is there when you need it and grows with your business. The IBM System i5™ family can deliver the power and capacity to run new and existing core business applications on a single system, to easily integrate and simplify your IT environment. The System i5 platform delivers a complete business system with the features and functions you need built in, making it the most cost-effective business system.

Highlights

- ***Built-in operating system, data-base and modern application development tools***
- ***Built-in virus resistance and security with auditing, protection and controls certificate creation***
- ***Built-in backup and recovery shared by i5/OS, Windows, Linux and UNIX operating environments***
- ***Built-in performance tuning and management with automatic self-managing and self-healing features to help control system administration and maintenance costs***
- ***Built-in Web server including wizard-based set up and Web-based management***

By design, the System i5 family is highly secure and virus resistant. It supports proven, industry-specific solutions from IBM Business Partners with innovative IBM technology and the capability to run all popular operating systems and application environments on one system. System i5 offerings provide flexible pricing and a keen focus on delivering value in your business. The result is a simple, affordable solution with outstanding capability, price performance, reliability and manageability, legendary security and the flexibility to start small and grow to meet new business demands.

Get more out of your investment

Your IT budget is limited and IT staff is small. With the System i5 family, everything you need to run your business applications is integrated into a single system. With database, security, performance tuning, backup, reporting, communications and Internet connectivity built in, the System i5 platform is designed to be easy to operate, easy to maintain and easy on your budget.

The IBM Accelerator for System i5 offers you the ability to dynamically add processing capacity for running additional applications on your 520 Express. You can purchase the 520 Express with the performance to run your current, core applications and then as your

business requires new applications, you can upgrade on demand. The i520 Express and Accelerator provide the ability to support a broad range of core business applications and consolidate or add new applications to extend capabilities and collaboration across the value chain.

System i5 offerings can help companies reduce complexity, simplify their IT environments and reduce their total cost of ownership (TCO). With multiple growth options and upgrades available, companies can start small and expand their i520 Express as business needs grow. System i5 solutions deliver superior customer value on a single system.

Protect system availability and ensure business continuity

Application requirements will expand as companies grow. Businesses need intuitive, optimized management facilities every step of the way. A range of application management features incorporated into IBM System i5 offerings can help organizations meet these challenges by adjusting application workloads and performance dynamically—even automatically—in response to constantly shifting business priorities.

Trust the System i5 family to help protect your business information. Each system has integrated security management and application programming interfaces (APIs) to support real-time

virus scanning tools for a solid line of defense—giving the platform a well-earned reputation for being a highly virus-resistant system.

Advanced technology built into the System i5 family can help automate monitoring to ensure high availability and prevent downtime. For example, the system can proactively alert IBM of 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.

Simplify your IT environment and run virtually any application

The System i5 520 can simplify IT environments by running multiple applications and multiple operating systems concurrently on a single system. Advanced virtualization technologies allow the System i5 platform to run IBM i5/OS®, Linux®, IBM AIX 5L™, Microsoft® Windows®¹, IBM Workplace and Lotus® Domino® software. This enables companies to choose from a broad selection of applications and consolidate operations on a single, highly flexible and reliable system with outstanding price/performance.

With the capacity to support up to 10 dynamic logical partitions (LPARs) per processor, the i520 can provide extensive flexibility for businesses running applications in a variety of operating environments. Running several operating environments on the same system can reduce the management cost and complexity compared to a typical server farm—and in turn—deliver faster return on investment and lower cost of ownership.

Enhance productivity by consolidating Windows operating system-based servers

Many small- and mid-sized businesses run Microsoft Windows operating system-based applications on multiple Intel® processor-based servers. To help companies simplify their IT environments, enhance manageability and boost productivity, System i5 platforms offer two options for consolidating Intel processor-based servers: attaching external IBM **@server** xSeries® systems using Integrated xSeries Adapters or installing Integrated xSeries Servers directly inside the System i5 platform. With these options, companies can benefit from both the security and reliability of System i5 platforms and the flexibility to run Windows operating system-based applications on the same system.

The virtualization capabilities of the System i5 platform also allow companies to share disks, tapes and DVDs with Windows operating system-based servers—making the i5 system the central storage and backup/recovery system. The advanced System i5 storage architecture can provide more flexibility than conventional Windows operating system-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 i5 system, 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.

Connect with your customers, suppliers and partners

Innovative small- and mid-sized companies want to achieve a level of seamless integration with suppliers, partners and customers to deliver better responsiveness and a superior customer experience. With the integration of IBM WebSphere® Application Server Express and WebSphere Development Studio, the System i5 family allows you to easily extend your core business applications to the Web.

Select from a range of flexible options

The System i5 520 Express is offered in a wide range of versatile choices. It provides a choice of 1-way IBM POWER5 processors starting at 600 CPW (Commercial Processing Workload) and ranging up to 3800 CPW; up to 32GB of memory; and 39TB 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.

The System i5 520 Express is ideal for companies that need an affordable, easy-to-use system with the flexibility to grow and adapt quickly to new business demands. Flexible finance options featuring IBM low-rate financing are available through IBM Global Financing. The IBM System i5 520 Express—combined with industry-specific applications and services from IBM Business Partners as well as low monthly lease rates and financing from IBM—provides a complete, robust solution.

System i5 520 Express at a glance

Offering	Entry	Entry Plus	Entry Plus with RAID
Processor CPW (base/max with CoD)	600/3100	600/3100	600/3100
5250 OLTP CPW	30	30	30
Memory included (max)	1GB (32GB)	1GB (32GB)	1GB (32GB)
L3 cache	0	0	0
Disk drives included (max number of drives)	2 (278)	2 (278)	4 (278)
Disk protection implemented	Mirroring	Mirroring	RAID-5
2 Ethernet LAN	Included	Included	Included
2-line WAN	Included	Included	Included
30GB QIC tape drive	Included	Included	Included
DVD ROM drive	Included	Included	Included
Twinax adapter	Included	Included	Included
i5/OS	Included	Included	Included
IBM Web Enablement and IBM Director for iSeries	Included	Included	Included
1-year software maintenance	Included	Included	Included
Query for System i5	N/A	Included	Included
DB2® Query & SQL Toolkit	N/A	Included	Included
IBM System i5 Access (5 users)	N/A	Included	Included
IBM WebSphere Development Studio	N/A	Included	Included
Software tier	P05	P05	P05
Windows Server™¹, Linux®, AIX 5L™ capable	Yes	Yes	Yes

System i5 520 Express at a glance

Offering	Growth	Growth with RAID	Turbo	Turbo with RAID
Processor CPW (base/max with CoD)	1200/3800	1200/3800	3800	3800
5250 OLTP CPW	60	60	60	60
L3 cache	36MB	36MB	36MB	36MB
Memory (max)	2GB (32GB)	2GB (32GB)	4GB (32GB)	4GB (32GB)
Disk drives (15K RPM, 35GB) (max number of drives)	2 (278)	4 (278)	2 (278)	4 (278)
Disk protection implemented	Mirroring	RAID-5	Mirroring	RAID-5
2 Ethernet LAN	Included	Included	Included	Included
2-line WAN	Included	Included	Included	Included
30GB QIC tape drive	Included	Included	Included	Included
DVD ROM drive	Included	Included	Included	Included
Twinax adapter	Included	Included	Included	Included
i5/OS	Included	Included	Included	Included
IBM Web Enablement and IBM Director for iSeries	Included	Included	Included	Included
1-year software maintenance	Included	Included	Included	Included
Query for System i5	Included	Included	Included	Included
DB2 Query & SQL Toolkit	Included	Included	Included	Included
IBM System i5 Access (5 users)	Included	Included	Included	Included
IBM WebSphere Development Studio	Included	Included	Included	Included
Software tier	P10	P10	P10	P10
Windows Server¹, Linux, AIX 5L capable	Yes	Yes	Yes	Yes

For more information

To learn more about the IBM System i5 family, please contact your IBM representative, IBM Business Partner or visit the following Web site:

ibm.com/systems/i/



© Copyright IBM Corporation 2006

IBM Systems and Technology Group
Route 100
Somers, NY 10589

Produced in the United States
January 2006
All Rights Reserved

IBM, the IBM logo, the e-business logo, AIX 5L, AS/400, DB2 Universal Database, @server, i5/OS, iSeries, POWER, POWER5 and WebSphere are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries or both.

Intel is a registered trademark of Intel Corporation in the United States, other countries or both.

Linux is a trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries or both.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Other company, product and service names may be trademarks or service marks of others.

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may not be new and may have been previously installed.

Regardless, IBM warranty terms apply.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

¹ Via an Integrated xSeries Adapter or Integrated xSeries Server—The installed combination of I/O Towers and Integrated xSeries Adapters cannot exceed nine.