

Do away with runaway IT server farms, cost and complexity



## IBM @server® iSeries 520



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. The IBM @server® iSeries™ system can deliver the power and capacity to run new and existing core business applications on a single server, to greatly integrate and simplify your IT environment. The iSeries provides a technology foundation with proven reliability and rock solid security for sound, business growth.

Advanced virtualization technologies allow the iSeries to run multiple operating systems and application environments simultaneously—including IBM i5/OS™, Linux®, IBM AIX 5L™, Microsoft® Windows® (via an IXA or

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### Highlights

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- *Can simplify IT environments by reducing the number of servers and associated staffing required, so you can reinvest the savings to grow your business*
- *Virus resistant by design, helps save money by avoiding multiple security patches throughout the year as well as reducing concern about company data security being compromised*
- *Gives businesses a complete, integrated system that provides a secure, reliable way to become an On Demand Business*

IXS) 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 server with outstanding price/performance.

iSeries systems 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 iSeries 520 as business needs grow. The iSeries delivers superior customer value on a single system.

#### **Simplify your IT environment and run virtually any application**

The iSeries can simplify IT environments by running multiple applications and multiple operating systems concurrently on a single system. With the capacity to support up to ten dynamic logical partitions (LPARs) per processor, the model 520 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 difficulty compared to a typical server farm—and in turn—deliver faster return on investment and lower cost of ownership.

Based on IBM POWER5™ processors—the ninth generation of IBM 64-bit processor technology—IBM @server iSeries systems can enable small- and mid-sized businesses to seamlessly upgrade their processing power, while continuing to take advantage of existing investments in storage and networking. 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 Business.

#### **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, iSeries systems offer two options for consolidating Intel processor-based servers: attaching external IBM @server xSeries® systems using Integrated xSeries Adapters or installing the Integrated xSeries Server directly inside the iSeries. With these options, companies can benefit from both the security and reliability of iSeries systems and the flexibility to run Windows operating system-based applications on the same system.

The virtualization capabilities of the iSeries also allow companies to share disks, tapes and DVDs with Windows operating system-based servers—making the iSeries the central storage and backup/recovery system. The advanced iSeries 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 iSeries

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.

### **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 **@server** iSeries systems can help organizations meet these challenges by adjusting application workloads and performance dynamically—even automatically—in response to constantly shifting business priorities. The application 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 the iSeries can help automate monitoring to ensure high availability and prevent downtime. For example, the system 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 iSeries 520 is offered in a wide range of versatile choices. It 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 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 iSeries 520 makes an ideal entry-level system for customers that run traditional OS/400® and i5/OS applications and want the flexibility to add new features and applications as necessary.

## iSeries 520 at a glance

Processor	1-way POWER5	1-way POWER5	1-way POWER5	1-way POWER5	1-way POWER5	1-way POWER5	2-way POWER5
Server feature code	0900	0901	0912	0902	0903	0904	0905
Edition	Value, Express	Value, Express	Value, Express	Standard, Enterprise	Standard, Enterprise	Standard, Enterprise	Standard, Enterprise
Processor CPW	500	1000	2400	1000	2400	3300	6000
5250 OLTP CPW	30	60	60	0 or max	0 or max	0 or max	0 up to max
Memory (max)	32GB	32GB	32GB	32GB	32GB	32GB	32GB
Disk capacity (max)	39TB	39TB	39TB	39TB	39TB	39TB	39TB
Disk drives (max)	278	278	278	278	278	278	278
i5/OS	Included	Included	Included	Included	Included	Included	Included
Software tier	P05	P10	P10	P10	P10	P20	P20
Windows Server <sup>1</sup> , Linux, AIX 5L capable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tower or rack design	Both	Both	Both	Both	Both	Both	Both
Integrated xSeries Servers (max)	18	18	18	18	18	18	18
Integrated xSeries Adapters (max)	8	8	8	8	8	8	8
Micro-partitions (max LPARS - 2 i5/OS, AIX 5L, Linux)	2	4	10	4	10	10	20
High speed link (RIO/HSL) Loops (max)	1	1	1	1	1	1	1
I/O towers/drawers (max) <sup>2</sup>	6	6	6	6	6	6	6
PCI card slots (max)	90	90	90	90	90	90	90
LAN ports (max)	36	36	36	36	36	36	36

<sup>1</sup> Via an Integrated xSeries Adapter or Integrated xSeries Server

<sup>2</sup> The installed combination of I/O towers and Integrated xSeries Adapters cannot exceed nine.



**For more information**

To learn more about the IBM **@server** iSeries 520 system, please contact your IBM representative, IBM Business Partner or visit the following Web site:

**ibm.com**/eserver/series



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