

IBM *@server* iSeries Models 800 and 810 for small to medium enterprises



Highlights

- ***Simple, centralised management of multiple operating environments helps reduce complexity and lower management costs***
- ***Self-managing, self-healing features help control system administration and maintenance costs***
- ***Exceptional price performance, delivering enterprise-class technology and e-business tools***
- ***Simple Windows™ Integration for reduced complexity and lower cost of operations***
- ***Low-cost tools available to modernise existing applications and extend them to the Web.***

iSeries and the on demand world

Today's on demand world is high-pressure and fast moving. Business demands change constantly and in order to gain a competitive edge, companies – no matter how big or small – must be able to react instantly to customers' changing needs. It means having a flexible IT infrastructure that can grow and dynamically adapt to these demands. All too frequently, this can mean running multiple servers – which often means greater complexity and increased management costs. Because complex infrastructures are not agile and do not respond well to rapid change, it may also mean lost business opportunities.

But it doesn't have to. The IBM *@server* iSeries is a highly integrated, reliable server that allows businesses to run multiple environments and virtually any application on a single system – simultaneously. The iSeries Model 800 and Model 810 offer small to medium-size companies a simple, affordable solution, with outstanding price performance, legendary iSeries security and availability, and the flexibility to start small and grow to meet new e-business demands.

One server for virtually any application

The iSeries Model 800 and Model 810 are ideal for businesses looking for the flexibility of a variety of operating environments – without the complexity of managing a server farm of multiple servers. The iSeries Model 800 and 810 can simultaneously support OS/400®, Linux, Windows 2000, Windows NT®, Lotus® Domino® and ported UNIX® applications. In addition, application environments and languages such as WebSphere®, Java™ and highly efficient 5250 online transaction processing (OLTP) are supported.

The recently announced WebSphere Application Server Express for iSeries provides the function required to help companies modernise and extend their existing applications to the Web. WebSphere Express for iSeries supports new, open e-business solutions based on HyperText Markup Language (HTML), Java, Extensible Markup Language (XML) and Web Services. Within a single package, WebSphere Express for iSeries includes an application server and a WebSphere application development tool, including the IBM WebFacing Tool.

Advanced dynamic logical partitioning (LPAR) capabilities on the iSeries allow for dynamic reallocation of resources across multiple application environments. This translates to easy administration and the ability to adjust quickly to changing business priorities. And thanks to the superior management capabilities of the iSeries, administering these workloads is now easier than ever. By consolidating business applications on an iSeries, companies can lower administration costs and reduce the complexity of managing server farms.

Windows consolidation, central management

For local consolidation of Intel® servers and storage, with centralised management of iSeries and IBM @server xSeries®, the iSeries offers two options – installing the Integrated xSeries inside the iSeries or attaching external xSeries servers directly to the iSeries via Integrated xSeries Adapters.

Either option allows your Windows servers to share iSeries' centralised disk, tape, DVD and systems management resources. The result is true integration, combining the best of both iSeries and xSeries – the freedom to run the best mix of applications while using the management strengths of OS/400 to operate the entire implementation as a single infrastructure with minimum complexity.

The advanced iSeries storage architecture can also provide more flexibility than conventional Windows server implementations, where dedicated disk drives are typically attached to every server and a network administrator must manage each server's capacity separately. With the iSeries, all disks can be managed as a single pool of RAID-5 (redundant array of independent disks) protected storage – for greatly simplified data administration and improved storage utilisation.

Immediate access to business-critical tools

The integrated architecture of the iSeries allows for centralised, easy management of your IT infrastructure – in a single, affordable package. Integrating key elements of a comprehensive e-business tool set – the database, storage and application development tools – can help lower acquisition costs, speed deployment and greatly enhance manageability. iSeries lets you focus on managing your business, not running your technology.

iSeries offers an integrated, self optimising storage management architecture that is designed to automate the management of main memory, cache and disk storage with balanced application performance. Unlike other platforms, complex storage operations such as increasing storage capacity, data distribution for performance, load balancing and expert cache are an inherent part of iSeries automated storage management capabilities. For this reason, the iSeries does not require dedicated storage specialists to perform day-to-day storage management tasks – significantly helping to reduce management costs.

iSeries Storage Area Network (SAN)– like support enables administrators to centrally manage storage resources and share them across application environments. Intuitive graphical management tools on OS/400 allow manual or automated storage management – administrators may configure storage space manually or simply monitor resource allocation as the Model 800 or Model 810 dynamically optimise available storage space. This means that businesses can more easily automate storage management for diverse workloads on a single server.

Also built into every iSeries is the industry-leading IBM DB2 Universal Database* (UDB). OS/400 Version 5 Release 2 (V5R2) on the iSeries supports a comprehensive set of open and Structured Query Language (SQL) standards and enhanced compatibility with the IBM DB2* family, allowing greater flexibility and code portability. Extended data partitioning allows organisations to perform scheduled maintenance and seamlessly switch database objects to other systems, minimising interruptions to normal operations for higher availability.

The IBM WebFacing Tool helps customers and independent software vendors (ISVs) quickly modernise traditional 'green screen' 5250 applications to a Web-oriented interface. For customers buying iSeries Models 800 and 810, these WebFaced applications no longer require 5250 CPW, reducing the cost to deliver these applications.

A server that takes care of itself

Even the most comprehensive, powerful system needs to be simple in order to manage effectively. Workload requirements will grow as your business does, and companies need intuitive, optimised management facilities every step of the way. iSeries meets that need by building on IBM's autonomic computing initiative – a blueprint for self-managing systems that respond to changes with little human intervention. The goal – new highs in reliability, availability and serviceability, and new lows in downtime and cost of ownership.



With OS/400 V5R2, iSeries expands the use of self-configuring, intuitive graphical tools to automate an extensive range of management tasks, making them simple enough for anyone to implement with a click of a mouse or a wireless device. iSeries Navigator provides a simple graphical user interface for managing both iSeries and Windows servers. Administrators may easily stop and start servers, enroll OS/400 users to a Windows domain and perform storage management tasks (such as adding new virtual disks to a Windows server). iSeries Navigator for Wireless enables administrators to view server status, start or stop servers and run Windows commands for integrated xSeries servers from a Web-enabled cell phone, Personal Digital Assistant (PDA) or a Web browser.

iSeries Model 800

The Model 800 offers three editions tailored specifically for small enterprises, with a growth path within the model, so you can start small and grow as your needs grow. With 1-Way silicon-on-insulator (SOI) processors at either 300 CPW or 950 CPW, up to 8GB of memory and up to 4TB of disk, the Model 800 is ideal for small enterprises that need an affordable, easy-to-use server with the flexibility to grow and adapt quickly to new demands. The Model 800 allows you simple management of core applications and your Intel-based servers all from the same system.

The Model 800 Value Edition is the iSeries' entry-level, 300 CPW server for customers who run traditional OS/400 applications and want the flexibility to add features as necessary. The Model 800 Standard Edition offers a 300 CPW processor and a more robust configuration for customers who want to run their core business applications, manage their Windows server workloads from the iSeries, and begin the move to e-business through WebSphere Application Server Express. The Model 800 Advanced Edition with its 950 CPW processor is ideal for the customer seeking a multi-platform operating system with room to expand as they take on the increasing demands of e-business.

iSeries Model 810

The Model 810 is geared for the small to medium-size enterprises that not only need the power and capacity to run traditional multiple core business applications, but also need additional freedom and scalability to add new e-business technologies. It is ideal for helping to reduce the complexity and costs that often come with managing server farms and with growth paths within the model, you can start small, and grow as your needs grow.

The Model 810 comes in two editions – Standard or Enterprise, with a choice of 1-Way and 2-Way SOI processors ranging from 1020 CPW to 2700 CPW, up to 16 GB of memory, and up to 14 TB of disk. The Model 810 Standard Edition offers a base configuration, with the ability to add features as your business needs change. The Model 810 Enterprise Edition includes features such as maximum 5250 CPW, WebSphere Application Server Express, and licensing for e-business solution tools and data management tools.

Thousands of applications available

With the Model 800 and Model 810, customers can choose from a vast array of industry leading software tailored for small and medium businesses. A global network of leading ISVs offer an outstanding portfolio of business-to-business (B2B), business-to-consumer (B2C), customer relationship management (CRM), supply chain management (SCM) and enterprise resource planning products. These applications simplify deployment and lower costs by providing proven solutions – tested to work on the iSeries.

A tradition of total support

IBM delivers support for our customers – even before the initial installation of an iSeries – with Technical Support Advantage – comprehensive technical service and support that helps you learn about, choose, implement and use the right IT solution based on your business requirements. Our experts can help with business and IT consulting,

business transformation and total systems management services, as well as customised solutions. The Web provides quick access to technical information and tools. We also have a vast amount of experience to help you develop your e-business infrastructure from end -to-end – experience that can give you peace of mind.

A single server for e-business, today and tomorrow

With the ability to support a wide spectrum of operating environments and an impressive suite of e-business tools, iSeries delivers outstanding versatility and ease of use. Self-managing, self-healing features reduce IT administration time and expense. In addition, Model 800 and Model 810 offer the same mainframe-class reliability and high availability as top-end servers – at a fraction of the cost.

An affordable entry price, unique integrated architecture and self-management features set the Model 800 and Model 810 apart as excellent choices for small and medium businesses. Easy deployment and minimal maintenance contribute to a lower total cost of ownership, and simple modular upgrades allow room for growth. These models demonstrate the ability to handle not only today's e-business demands, but tomorrow's as well.

For more information

To learn more about the iSeries 800 and 810, contact your IBM Marketing Representative or IBM Business Partner, or visit: **ibm.com/eserver/iseries**

Model	800	800	800	810	810	810
Server	0863	0864	0865	0866	0867	0869
Processor	2463	2463	2464	2466	2467	2469
Edition	Value	Standard	Advanced	Standard or Enterprise	Standard or Enterprise	Standard or Enterprise
	1-Way	1-Way	1-Way	1-Way	1-Way	2-Way
Processor CPW	300	300	950	1020	1470	2700
5250 CPW[†]	25	25	50	0 or max	0 or max	0 or max
Main Storage						
Min Capacity (MB)	256	512	512	512	512	512
Max Capacity (GB)	8	8	8	16	16	16
Disk Storage						
Min (GB)	17.5	17.5	17.5	17.5	17.5	17.5
Max (GB)	4445	4445	4445	13791	13791	13791
Disk Arms	63	63	63	198	198	198
Internal DVD/Tape	4	4	4	10	10	10
External Tape/Optical/CD/DVD	15	15	15	18/36	18/36	18/36
Physical Packaging (maximums)						
HSL Loops	1	1	1	1	1	1
I/O Towers Supported	1	1	1	4	4	4
PCI Card Slots	21	21	21	63	63	63
PCI IOA Cards	17	17	17	50	50	50
Twinaxial Controllers	15	15	15	48	48	48
Twinaxial Devices	600	600	600	1920	1920	1920
Communication Lines	62	62	62	194	194	194
LAN Ports	12	12	12	36	36	36
Linux capable	Yes	Yes	Yes	Yes	Yes	Yes
Integrated xSeries Servers	4	4	4	13	13	13
Integrated xSeries Adapters	3	3	3	7	7	7

[†] Depending upon standard or enterprise package.



IBM United Kingdom Limited

emea marketing and publishing services (emaps)
Normandy House
PO Box 32
Bunnian Place
Basingstoke
RG21 7EJ
United Kingdom

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