

*The perfect entry system with a 3-year warranty and a price that might surprise you*



## IBM System p5 185 Express Server



*System p5 185 Express desktop server*

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### Highlights

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- ***Great for application serving in distributed environments***
- ***Exceptional price/performance through IBM PowerPC technology***
- ***Flexibility to support Linux® and UNIX® applications***
- ***Easy to buy, install and manage***

The new System p5 185 Express server is our lowest priced system based on the IBM Power Architecture™ with features designed for excellent and secure performance whether running AIX 5L™ or Linux applications. Buy it either as a desktop or 5U (five EIA units) 19-inch rack-mount server and get up to 2-way scalability and IBM leadership availability. The p5-185 Express can support critical applications such as application serving or distributed workloads—all while helping improve availability and

responsiveness. As such, it is an excellent replacement for IBM RS/6000® 150 and 170 servers in distributed environments.

With leading-edge IBM PowerPC 970 processor technology and the AltiVec™ performance enhancement, the very affordable 64-bit symmetric multiprocessing (SMP) System p5 185 Express server offers significant price/performance benefits. And running Linux or UNIX operating system environments concurrently make the p5-185 Express an excellent complement to the System p5 Express family.

### **Proven PowerPC technology**

The System p5 185 Express server harnesses the advantages of PowerPC 970 microprocessors by featuring one or two high-performance, highly reliable 64-bit 2.5 GHz processors with 1MB of L2 cache per processor. 64-bit addressing contributes to excellent performance by supporting large amounts of memory—allowing applications to

keep more information accessible in high-speed memory, and enabling them to run faster by reducing the need to retrieve data from online storage.

Memory can be expanded from 512MB to 8GB. A dual ported Ethernet 10/100/1000 Mbps controller provides exceptional network connectivity and flexibility. A dual channel Ultra320 SCSI controller also can offer high performance and direct access to internal storage and external SCSI devices. The integrated IDE controller supports up to two media bays. Four USB ports are available; two in the front and two in the rear. These integrated controllers can eliminate the need for additional adapters saving space and cost.

The system provides a high level of internal expandability. The System p5 185 Express features five bays: three internal disk bays that can contain up to 900GB of Ultra320 SCSI internal disk storage and two 5¼-inch half-high media bays for DVD-ROM, DVD-RAM or a tape drive, or a fourth Ultra320 SCSI disk drive. Five adapter slots are available: two 64-bit 133 MHz slots, two 64-bit 100 MHz slots and one 32-bit 33 MHz slot to provide

backward compatibility for older 32-bit cards. A USB attached diskette drive is also available.

#### **Flexibility, reliability features**

The System p5 185 Express is designed to give clients the flexibility to run the AIX 5L and Linux operating systems concurrently. AIX 5L, IBM's industrial-strength UNIX OS, is built on a tradition of reliability, availability, security and open standards for business-critical applications. The Linux operating system is known for its extensive set of open source applications and ability to rapidly deploy new or customized solutions. Linux distributions from Red Hat, Inc. and SUSE Linux are supported.

The System p5 185 Express derives many of the same RAS features as larger IBM System p5 Express models, helping keep the system up and running around the clock. It extends IBM's world-class RAS capabilities to an entry system by including a service processor, processor and ambient temperature monitoring, PCI bus parity and ECC memory, system management alerts, and auto reboot on power loss. The resulting increase in system availability allows more work to be processed.



*System p5 185 rack drawer*

#### **Express offerings deliver price advantage and are easy to buy**

The System p5 185 Express platform is available in specially priced packages—Express Editions—designed to deliver outstanding business value to smaller and mid-sized businesses and departments of large enterprises while meeting the needs of many mission-critical applications. The System p5 185 Express, AIX 5L Edition and the System p5 185 Express, OpenPower™ Edition include popular, easy to order configurations with financial incentives on the hardware as well as the ability to order a discounted AIX 5L or Linux OS. Additional memory, disk drives or adapters—or displays and external storage—can be easily added to the package without impacting the original savings.

### **Easy to manage**

The cost of managing and deploying systems can be a key decision criterion for many companies. IBM and IBM Business Partners can work with a client every step of the way—from acquisition, to design, to turnkey installation and migration and even to running the systems.

The automated management tools of the System p5 185 Express server are designed to free the system operator from repetitive activities and potential disruptions, making it easier to manage. Features are provided for both UNIX and Linux environments to simplify the management of IT infrastructures and to help cut costs and improve application performance. IBM Director is available for the System p5 185 Express—allowing seamless management integration with the rest of an IBM infrastructure.

### **Infrastructure and industry-specific offerings**

IBM has committed resources and performed integration testing to develop relevant industry-specific solutions with outstanding performance and technological innovations. System p5 Express

servers, middleware platforms, business partner and open source applications, and services are being combined to help clients quickly, easily, safely and cost effectively solve pressing problems. With support across the entire System p5 family including the System p5 185 Express, these integrated offerings recommend common starter configurations to cover a range of user requirements and provide blueprints on how to design, set-up, install and deploy an optimal infrastructure for common IT and industry-specific tasks.

Clients needing highly available and powerful storage to support their System p5 Express servers can realize benefits derived from using IBM System Storage™ and TotalStorage® solutions. IBM conducts comprehensive testing in System Storage laboratories under stress environments, including clustered configurations, to help ensure combined server and storage systems solutions have high reliability, interoperability and streamlined, efficient implementation. With an IBM TotalStorage, System Storage and p5-185 Express

server solution, you can be assured your IT environment will meet today's and tomorrow's demanding needs.

### **System p5 185 Express: Ideal for day-to-day processing and the bottom line**

Ask your IBM representative or IBM Business Partner about the System p5 185 Express server for workloads in distributed environments—or for application serving. Available solutions span thousands of AIX 5L and Linux applications used in a wide range of industries including education, government, transportation, construction, wholesale and retail distribution, light manufacturing, services and professional groups. The system is an ideal fit for these industries because it has the functions, solutions and support needed at a competitive price.

As part of the IBM Express Portfolio™ of offerings, these servers are easy to buy, install and manage. Choose the Express configuration that is right for your business needs and take advantage of special IBM financing.

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## System p5 185 Express

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### Standard configurations

Microprocessors	One or two 64-bit 2.5 GHz PowerPC 970 processors with AltiVec extensions
Level 2 (L2) cache	1MB per processor
RAM (memory)	512MB to 8GB of 333 MHz DDR SDRAM; ECC
Internal disk storage	Up to 1.2TB Ultra320 SCSI
Internal SCSI disk bays	Three (10K rpm disks)
Media bays	Two half-high; one for optical device, one for a disk or tape drive
Adapter slots	Four PCI-X: two 64-bit 133 MHz, two 64-bit 100 MHz; One PCI: 32-bit 33 MHz

### Standard features

I/O ports	Dual channel Ultra320 SCSI controller Dual ported Ethernet 10/100/1000 Mbps controller Four USB (two front, two rear); two serial
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### Expansion features

Connectivity support (optional)	2 Gigabit Fibre Channel; 4x InfiniBand
Graphics support (optional)	2D graphics: GXT135P; 3D graphics: GXT4500P and GXT6500P (AIX 5L only)

### Operating systems

AIX 5L Edition: AIX 5L V5.2 or later  
OpenPower Edition: SUSE Linux Enterprise Server 9 for POWER™ (SLES 9 SP3) or later;  
Red Hat Enterprise Linux AS 4 for POWER (RHEL AS 4.3) or later

### Power requirements

100v to 127v or 200v to 240v AC

### System dimensions

Deskside: 18.5"H x 10.1"W x 19.5"D (469mm x 257mm x 496mm);  
weight: 55.0 lb (25.0 kg)<sup>1</sup> Rack drawer: 8.6"H x 16.9"W x 20.6"D (218mm x 429mm x  
524mm); weight: 55.0 lb (25.0 kg)<sup>1</sup>

### Warranty

8 A.M. to 5 P.M., next-business-day for three years (limited) at no additional cost; on-site for selected components; CRU (customer replaceable unit) for all other units (varies by country).  
Warranty service upgrades and maintenance are available.

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## For more information

To learn more about the IBM System p5 185 Express server, please contact your IBM marketing representative or IBM Business Partner, or visit the following Web sites:

- [ibm.com/systems/p/](http://ibm.com/systems/p/)
- [ibm.com/severs/aix](http://ibm.com/severs/aix)
- [ibm.com/linux/power](http://ibm.com/linux/power)
- [ibm.com/systems/p/solutions/](http://ibm.com/systems/p/solutions/)
- [ibm.com/common/ssi](http://ibm.com/common/ssi)
- [www.express-portfolio.com/ibm](http://www.express-portfolio.com/ibm)



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When referring to storage capacity, 1TB equals total GB divided by 1000; accessible capacity may be less.

Many of the features described in this document are operating system dependent and may not be available on Linux. For more information, please check:

[ibm.com/systems/linux/power/whitepapers/linux\\_overview.pdf](http://ibm.com/systems/linux/power/whitepapers/linux_overview.pdf).

<sup>1</sup> Weight will vary when disks, adapters and peripherals are installed.