More power and performance … at the right price

IBM

RS/6000 43P Model 150 Workstation

Workstation power to fit your budget

If you need to pump up your 3D graphics productivity – and keep a watchful eye on your budget at the same time – take a close look at the RS/6000® 43P Model 150. This compact yet expandable workstation delivers the right combination of power, performance and price to delight engineers. However you configure this affordable performer, you can count on the Model 150 to meet your needs today, plus give room to grow with confidence.

Highlights

Outstanding price/performance in a CAD/CAM workstation

Exceptional 3D price/performance

Choice of two processor speeds to meet performance needs

Outstanding expandability in one compact package

Ultra SCSI, Ultra2 SCSI and SSA storage options for improved data transfer performance and availability

Network-ready, with 10/100 Mbps Ethernet built in

Powered by award-winning IBM AIX®[1]

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Feature	Benefits
High function 2D/3D graphics workstation	• Offers high function and high performance 3D graphics acceleration with the POWER GXT2000P or the GXT3000P graphics accelerator • Offers full color 2D graphics with the POWER GXT300P graphics accelerator
Higher performance	• Delivers exceptional 3D performance plus greater expansion capabilities over the RS/6000 Model 140
Configuration flexibility	• Offers choice of 250 or 375MHz PowerPC 604e processors • Allows starting with 128MB and growing to 1GB of memory • Provides access to Ultra2 SCSI and SSA disk storage
Ultra2 SCSI disk support	• Quadruples the data transfer rate over SCSI-2 F/W to an impressive 80MB/sec for data intensive applications • Improves multidisk performance
SSA RAID disk support	• Provides higher disk capacity for externally attached units • Increases disk transfer rate up to 160MB/sec • Helps to improve data availability and device reliability
Tablet port/mouse port	• Allows attachment of these devices without using a system port or additional adapter card, resulting in more room for expansion
LED operator panel (3-digit)	• Machine status is visible at a glance, improving troubleshooting capability
AIX operating system	• Provides a vast portfolio for multiuser applications • UNIX® branded as well as Year 2000-, Euro- and Tivoli®-ready • Full binary-compatible support for AIX 4.3 provides forward and backward compatibility with legacy applications

Stepping up power on the desktop

For those looking for more power at an entry price point, the Model 150 offers great performance at an affordable price. A choice of PowerPC 604e microprocessors (250 or 375MHz) and memory provide the versatility and price/performance needed in the primary design workstation of an engineering enterprise. Memory configurations are flexible beginning at 128MB and expandable to 1GB for demanding 3D graphic design applications. And a 1MB Level2 (L2) cache is provided for increased processor performance.

Increase productivity with industry-leading graphics

With the IBM RS/6000 family of workstations, you can choose from a wide range of options to meet advanced 3D graphics requirements. The POWER GXT2000P provides excellent 3D performance at a great price, and it supports advanced functions, such as trilinear texture mapping. For workstation users who demand higher performance, equip the Model 150 with the POWER GXT3000P, our most powerful 3D graphics accelerator. The GXT3000P delivers significant improvements in 3D processing power, providing an ideal entry solution for advanced 3D solid modeling applications.

The POWER GXT300P is an advanced, high-performance graphics accelerator for 2D applications, such as ECAD, GIS, remote sensing, seismic processing, process control, and software development. Entry 3D support is provided via Softgraphics software, IBM's implementation of the OpenGL and graPHIGS APIs included with AIX 4.3.

The entry POWER GXT130P 2D graphics accelerator meets the graphics requirements of many technical and commercial applications. This accelerator is also a cost-effective choice for environments that require a graphical console.

RS/6000 43P Model 150 at a glance

Minimum configuration

Microprocessor	250MHz or 375MHz PowerPC 604e	**Internal disk drives**	9.1GB Ultra SCSI
Level 1 (L1) cache	32KB data/32KB instruction	**Disk/media bays**	Five (one disk & one media bay available)
Level 2 (L2) cache	1MB	**Expansion slots**	Five PCI
RAM (memory)	128MB SDRAM	**PCI bus width**	32-bit
Memory bus width	64-bit	**Memory slots**	Four

Standard features	Integrated ports: Tablet, keyboard, mouse, Ethernet (thick and twisted pair), Ultra SCSI, two serial, parallel, and stereo audio
	Vertical stand
	CD-ROM
	LED operator panel
	1.44MB 3.5 inch diskette drive
AIX operating system	Version 4.3 or above (unlimited user license)
System expansion	
RAM	Up to 1GB
DASD	Up to 54.6GB
External storage	IBM 2104 Expandable Storage Plus (Ultra2 SCSI)
	IBM 7133 Serial Disk System (SSA)
System dimensions	6.5"H x 16.5"W x 18.1"D (165mm x 420 mm x 460 mm): 32lbs (14.5 kg)
Warranty	24 x 7, on-site for one year (limited), at no additional cost

Room to grow, in one compact package

Don't let the space-efficient footprint of the Model 150 mislead you. This system offers exceptional expansion capability, giving the ability to customize the system to meet your needs, today and in the future.

Each Model 150 comes equipped with a built-in tablet port for graphics peripherals, plus 10/100 Mbps Ethernet and an advanced Ultra SCSI storage controller. Because these are integrated on the system board, all five expansion slots on the Model 150 are available for adding devices such as graphics accelerators, communications adapters or storage controllers.

You can expand the base 9.1GB of internal Ultra SCSI disk storage on the Model 150 up to 54.6GB–ample capacity to satisfy the requirements of many applications. And that's just for starters.

On the Model 150, a wide variety of external storage devices may be attached. The IBM 2104 Expandable Storage Plus (Ultra2 SCSI) and 7133 Serial Disk System (SSA) provide highly reliable, hot swappable external storage. When storage performance is an issue–for example, in the case of data-intensive CAE applications–choose Ultra2 SCSI or SSA disks and realize a significant improvement in data transfer rates over SCSI-2.

A system you can count on

The Model 150 has many of the reliability, availability and serviceability (RAS) features essential to today's business-critical computing environments. For example, Error Checking and Correcting (ECC) memory helps detect and correct single-bit errors on the fly. An easy-to-read LED operator status panel on the front of the system keeps you informed of its status at a glance. Concurrent diagnostics enable you to troubleshoot minor problems that may occur–without requiring the system to be shut down.

The RS/6000 workstation family

The Model 150 is the entry offering in our full range of graphics design workstations. Next in the RS/6000 family of workstations is the Model 170, a uniprocessor system that uses IBM's advanced 64-bit POWER3-II copper-based microprocessor technology to offer even greater levels of performance to our entry workstation line–but still at an affordable price. The Model 170 is an excellent choice for both 3D graphics design, as well as analysis and simulation applications. The top of our workstation product line is the Model 270, a 1- to 4-way symmetric multiprocessor (SMP) using POWER3-II technology. This powerful design and analysis workstation exceeds the requirements of the most demanding users.

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The AIX advantage

The UNIX operating system for the Model 150 is IBM's award-winning AIX, providing real value in reliability, availability and security. AIX is tuned for e-business performance, and widely recognized as start-of-the-art in systems and network management. With AIX, you have access to over 13,000 diverse applications.

For more information

- Contact your IBM marketing representative or IBM Business Partner
- To learn more about the RS/6000, visit the following Internet sites:
  - **ibm.com**/servers/unix
  - **ibm.com**/ibmlink

[1] *1999-2000 Operating System Function Review,* D.H. Brown Associates, Inc., March 2000

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