FEATURES DELL PRECISION™WORKSTATION 220 SPECIFICATIONS

System processors High-performance Intel® Pentium® III processors

The Dell Precision Workstation 220 is dual-processor capable **Processors** 800MHz 866MHz 933MHz 1.0 GHz Front side bus 133MHz 133MHz 133MHz 133MHz

Intel 820 AGP Chipset

Memory Two RIMM slots support 128MB to 1GB

Rambus® RDRAM® in RIMM sizes: 64,128, 256 and 512MB

nVIDIA™ TNT2 Pro Video card options

16MB of DDR SDRAM, AGP 4X support

nVIDIA™ GeForce2™ GTS

32MB of DDR SDRAM, AGP 4X support

Matrox® G450

Dual monitor support, 32MB

Integrated Analog Devices AD1881 AC-97 CODEC offers DirectX® acceleration, sample rate conversion/mixing Audio

and analog 3D processing. Optional SoundBlaster® Live! Value 512V sound card

Altec Lansing® ACS 340 amplified with subwoofer; harman/kardon® speakers Speakers

4Mb Flash, compliant with PC+MP 1.4, PCI 2.2, Plug-and-Play 1.0a, APM 1.2, PC99, ACPI 1.0a, BIOS

S.M.A.R.T., SMBIOS 2.3 support, DMI 2.0 compliant

EIDE disk interface Integrated PCI dual channel/connector, bus mastering, ATA66 and PIO Mode4 support; Optional ATA100 IDE RAID

SCSI disk interface Optional Ultra 160 SCSI Adaptec Controller Card for hard drives; Ultra (50-pin internal) for TBU, etc.; Ultra (50-pin

external) for scanners, etc.

I/O ports Two USB, 2 serial, 1 parallel, RJ45 (Ethernet) keyboard, mouse, microphone jack, line-out jack, line-in jack,

optional IEEE-1394 PCI card

Slots One AGP 4X,5 PCI

Hard drive options 10GB1 ATA-66/100 EIDE (7200rpm)

20GB1 ATA-66/100 EIDE (7200rpm) 40GB1 ATA-66/100 EIDE (7200rpm) 9GB1 Ultra 160 SCSI (10,000rpm) 18GB1 Ultra 160 SCSI (10,000rpm) 36GB1 Ultra 160 SCSI (10,000rpm) 73GB1 Ultra 160 SCSI (10,000rpm)

18GB1 Ultra 160 SCSI (15,000rpm)

CD-ROM & DVD drive options 48X max./20X min. EIDE; 12X DVD

> CD-R/W options 12X/8X/40X max. EIDE

Integrated network interface 3Com® 3C920 (3C905 compatible) TX Fast EtherLink® XL with RJ45 Managed Boot Agent, remote Wakeup-On-LAN

capability, ACPI compliant, remote system alerts

Network interface card options Optional 3Com EtherLink 3C900B 10 Base-T Combo (PCI)

> Power supply 230 watts

Dimensions (WxHxD) Minitower 8.7" x 19.3" x 17.8"

Desktop 17.4" x 6.5" x 17.7"

Tested operating systems Microsoft* Windows NT* 4.0. Windows* 98SE and Microsoft Windows 2000 Professional. Red Hat* Linux* 7.0

Modem option V.90 compliant 56K Aztech PCI modem⁶

lomega® Zip™ 250MB drive, Seagate® Travan TR-5 10/20GB SCSI Tape Back-up, 3.5" 1.44 MB floppy drive, LS 120 Removable storage

1.44MB/120MB floppy drive

Monitors Dell M781P (16.0" v.i.s.); UltraScan™ P780 (16.0" v.i.s.); UltraScan P991 (17.96" v.i.s.); Dell M991 (18.0" v.i.s.); UltraScan

P1110 (19.8" v.i.s.); Dell 1701FP (17.0" v.i.s.); Dell 1503FP (15.0" v.i.s.)

Dell QuietKey[™], Dell Performance **Keyboard options**

Mouse options Logitech® Club (3-button no scroll); Logitech First Mouse™+ (2-button plus scroll);

Microsoft Intellimouse® (2-button with scroll)

For more detailed information on the Dell Precision Workstation 220, visit www.dell.com Dell recommends Microsoft® Windows® 2000 for business

Dell Marketing L.P. One Dell Way Round Rock, TX 78682 http://www.dell.com

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For hard drives, GB means 1 billion bytes: total accessible capacity varies depending on operating environment.

On-site service may be provided pursuant to a service contract with a third-party provider, and is not available in certain areas. Technician will be dispatched if necessary following phone-based troubleshooting.

Installation services are provided subject to the terms and conditions in the service contract between you and Dell. Please read it carefully.

For a complete copy of our Guarantees and Limited Warranties, please write Dell U.S.A. L.P. ATTN: Warranties, One Dell Way, Round Rock, TX 78682

Available within a 100-mile radius of over 70 metropolitan areas. Customers not located within a 100-mile radius of the stocking locations are not eligible for this offering. Not available with any other Dell systems.

Product capable of 56Kbps downloads. Due to FCC rules that restrict power output, however, current download speeds are limited to 53Kbps. Upload speeds are limited to 33.6Kbps. Actual speeds may vary depending on line conditions



DELL PRECISION™ WORKSTATION 220

Dell engineers built this entry-level workstation around a set of core technologies designed to increase performance today while delivering the headroom necessary to reduce system bottlenecks in the future and capitalize on tomorrow's technology enhancements. Which makes the Dell Precision Workstation 220 an outstanding combination of value and performance.

AN ENTRY-LEVEL WORKSTATION THAT CAN LEAD YOU INTO THE FUTURE.

Not only is the Dell Precision Workstation 220 an exceptional value right now, but its forward-looking architecture was crafted to provide you with an excellent price/performance standard in the future.

This dual-processor-capable system features the latest Intel® Pentium® III processors, at 1.0 GHz, 933MHz, 866MHz and 800MHz; a 133MHz Front Side Bus (FSB); Intel's 820 chipset; up to 1GB of Rambus® RDRAM® memory; Ultra160 SCSI (optional), ATA66 and 4X AGP support as well as exceptional graphics performance. All of which helps you protect your investment in these capable entry-level workstations.

DELL PRECISION WORKSTATION 220 BENEFITS

- ▶ Delivers excellent performance at a value price
- ➤ Features forward looking core technologies
- Leverages high bandwidth Rambus RDRAM memory
- Scales to meet future productivity requirements

By including high performance core technologies, we have virtually eliminated bottlenecks within the system. So now your users can benefit from balanced throughput: the chipset maximizes the performance of the processors with an enhanced FSB. The chipset also supports a 4X AGP and provides a 1.6GB/s interface with the revolutionary Rambus memory.

This workstation maximizes the value of every dollar you invest in it today, while offering the performance headroom that just might make it an even more cost-efficient asset tomorrow.





TECHNOLOGIES

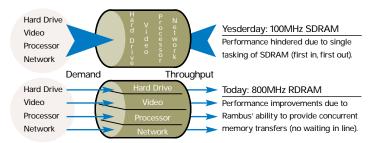
Balance is the key to the new set of core technologies that drives the Dell Precision Workstation 220. Each technology complements the others, optimizing current performance and anticipating future requirements. The enabling technology is the Intel 820 chipset, which overcomes the nagging problem that plagued previous systems: fast processors were slowed down by lagging data-transfer interfaces.

This potent chipset balances the 133MHz speed of the processor and the FSB. It supports the doubling of the AGP speed, from 512KB/s in our previous systems to 1GB/s in this workstation. What's more, it enables the blazing fast 1.6GB/s data transfer rate to and from the Rambus RDRAM memory. All of which optimizes the hardware inside the system, taking it to a new level of performance.

When it comes to new levels of performance, nothing compares to Rambus memory technology. The revolutionary Rambus RDRAM uses new interface designs, narrow data and control buses, packetized commands and data – along with very high clock speeds – to provide higher memory bus bandwidths.

Rambus' high clock speeds will not only improve current system performance by reducing memory obstructions, but will also provide headroom for expected advances in processor speed. Rambus' additional bandwidth is becoming increasingly important as microprocessors become faster and more powerful. With the Dell Precision Workstation 220, you are well positioned to take advantage of these productivity enhancements.

INCREASED PERFORMANCE WITH RAMBUS MEMORY TECHNOLOGY





Once you factor in the peak transfer rate that the ATA66 interface delivers, this system's dual-processor capability, its ability to scale to 1GB of RAM and 146GB¹ of storage, its robust 2D/3D graphics performance and its multimonitor capability, you've got an excellent

entry-level workstation that will grow with your users' need for increased computing power.

Count on the advanced Dell Precision Workstation 220 to be a smart investment that can keep contributing to your company's productivity – and bottom line – for years to come.

CUSTOMIZATION

Each customized Dell Precision Workstation 220 is precisely what you want it to be. The Dell Direct approach is built around our ability to customize each system for each user. So you get precisely the system you want. And nothing you don't. Which can greatly impact both your initial product costs and your total cost of ownership (TCO).

You can configure a Dell Precision Workstation 220 to the personal specifications of design engineers who need dual-processor capability for their battery of 2D and 3D applications, software developers who simultaneously compile code while running office programs and Web site designers who measure workstation utility in seconds-of-wait-time per graphic-intensive activity. And Dell can custom-build each system at our manufacturing facility so it's delivered direct to you ready to go – precisely the way you want it.

We can copy software installation files onto your system to save you setup time. Through our DellPlus custom-configuration program, we can install a wide array of industry-standard software (including custom and proprietary software), along with custom hard-drive images, non-Dell standard hardware and asset tags or custom labels. It's all done by specially trained, workstation-dedicated DellPlus teams, working in our ISO 9002-certified factories.

MANAGEABILITY

Comprehensive networking and systems-management features put you in control. The extensive array of integration and systems-management features built into the Dell Precision Workstation 220 is designed to put you in control of this powerful system.

Its integrated 3Com® 10/100 network interface card with Wakeup-On-LAN and alert capabilities lets system administrators remotely power up the system from a low-power "sleep" state to perform system updates or maintenance during off hours. It features flexible configuration-management capabilities, power and cooling system monitoring and an intrusion alarm. All of which can help extend this workstation's working life and impact your TCO.

The Dell Precision Workstation 220 supports industry-standard systems-management specifications, allowing easy manageability and interoperability. Support for Dell OpenManage™ management software, DMI 2.0-compliance and various UNIX® interoperability solutions means you've got outstanding asset-management and integration capabilities built into this highly capable system. And that can help translate into lower operating costs.



Managing service costs for your Dell system is made easier by design. The Dell Precision Workstation 220 chassis has service convenience designed in, thanks to our flip-up power supply, easy-to-access hard drive cage and the toolless entry system.

In addition, the Dell design team modified the system's standard fans to significantly improve their performance: adding more blades and

modifying their angle to boost airflow capacity. This is just one way Dell helps you manage your service costs by designing low maintenance into each system from the start.

CUSTOMER COMMITMENT

Our goal is to deliver the ultimate in price/performance on those applications most critical to Dell Precision Workstation users. We work to enhance the productivity of power users by optimizing the performance of our systems with various workstation-class applications; by providing workstation-specific support; by designing reliability, scalability, manageability and stability into each system; and by leveraging the Dell model to provide outstanding performance at an affordable price. Dell makes all the difference.



A FULL RANGE OF SERVICE OPTIONS.

The Dell Precision Workstation 220 comes with three-year, Next-Business-Day On-Site service, including parts and labor.² You can tailor Dell service plans to your needs using a variety of service options.

Installation Services get your custom-configured systems up and running quickly. Our experienced and certified installation technicians can help you set up and test your new Dell systems and even explain basic operations to your users.

Our 30-Day Getting Started HelpLine answers your questions about installation and configuration of factory-installed communications and application software for the first 30 days after you purchase a Dell Precision Workstation 220 and OS from Dell. You also get a 30-day total satisfaction return policy with every Dell system you buy!

Dell's award-winning Maintenance Services are at your command. For technical problems that simply won't wait, we offer 4-hour, on-site response service. Dell's toll-free hardware support and Dell's online support services are available 24/7 for as long as you own your system. In addition, Dell offers Windows NT*/Windows* 2000 Professional support.