

Dell Precision M20 Mobile Workstation



The Dell Precision™ M20 Workstation helps maximize productivity through ISV certifications, assured workstation performance and exceptional notebook mobility.

Designed to Run Workstation Applications Effectively and Reliably

The outstanding compute performance of Intel® Pentium® M processors with 2MB L2 cache helps run integer and floating point computation intensive applications exceptionally fast. The 533MHz front side bus and the DDR2 533MHz dual channel memory enable fast data transfer between the CPU and memory, and help ensure that the power of the processor is used optimally. The high bandwidth of the dual channel memory interface minimizes bottlenecks while running memory intensive applications, and helps ensure that engineers, analysts and digital content creators can go from desktop workstations to mobile workstations without missing a beat, or a deadline.

Create and Review 3D Models, Complex Assemblies, and Dazzling Special Effects

The superior graphics performance of the ATI Mobility™ FireGL™ V3100 OpenGL graphics engine enables CAD designers to create and review large, high quality models and complex assemblies fast and reliably. Digital content creators and animators can benefit from the support of advanced features such as dual geometry engines and four pixel pipelines to create dazzling graphics and lifelike animation. The PCI Express graphics interface increases the theoretical bandwidth to up to 8 times that of the AGP4X interface, and helps make the Dell Precision M20 mobile workstation an outstanding platform for graphics intensive applications.

Enjoy Exceptional, Secure Mobility and the Freedom of Wireless Connectivity

Liberate engineers, architects, artists and power users to go places with exceptional, secure mobility. Dell and Intel wireless miniPCI 802.11 solutions provide excellent connectivity and also support widely used wireless standards including CCX and LEAP. The M20 offers long battery life through high capacity 6-cell 53Whr batteries for extended work away from the office. The system also supports an optional secondary 6-cell battery to provide additional battery life. Excellent power management and easy to use utilities enable users to choose the settings that best meet their needs of performance, battery life, or the optimal combination of the two. The small size and less than 5lbs¹ starting weight (including travel module) enables users to travel easily. A range of security solutions helps ensure the system and data are protected and secure.

Optimized, Assured Application Performance through ISV Certification

Simply design and create without having to worry about whether the system can run the application. A comprehensive suite of certifications helps ensure that workstation applications run, and run very well. The M20 is certified on the workstation industry's most complex CAD, CAE, DCC, GIS and other applications. In the unlikely event of any issues, the certification team engages with application and/or hardware vendors to resolve the issue speedily. The M20 is optimized for workstation applications, with technologies and components chosen with a focus on running workstation applications well and tuned to optimize performance and reliability.

Expert Assistance Just a Phone Call Away, Should You Need It

Workstation telephone support can deliver speedy resolution of problems, should they ever occur. Dell Precision offers easy and efficient escalation to workstation application certification resources, should the issue require interfacing with the application vendor. The Dell Precision M20 is designed to exceed your expectations and is backed by 3 years Next Business Day On-site⁷ service and International programs across many countries.



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GET MORE PERFORMANCE AND MOBILITY. GET MORE OUT OF NOW.





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FEATURES Dell Precision™ M20

SYSTEM

Processors	Intel® Pentium® M processors up to Pentium M 780 (2.26GHz), 2MB L2 Cache, 533MHz FSB
Operating systems	Dell recommends Microsoft® Windows XP® Professional for Business
Chipset	Intel 915PM Chipset
Memory	Up to 2GB DDR2 533MHz memory
Displays	14.1" SXGA+ (1400 X 1050) or XGA (1024 X 768)
Graphics	ATI Mobility™ FireGL™ V3100 64MB with OpenGL support
Hard drives	Up to 60GB² 7200 RPM or 80GB² 5400 RPM; Optional 2nd drive for media bay available
Keyboard	87-Key US; 88-Key Europe; 91-Key Japan
Pointing Devices	Touch Pad - PS/2 Compatible; Track Stick - PS/2 Compatible
Audio	AC97 (Soft Audio); Integrated Speaker
Dimensions	(WxHxD) 12.28" x 1.35" x 10.32"; 312mm x 34.3mm x 260.4mm
Weight	Starting weight 2.21kg/4.88lbs¹ with travel module and 6-cell battery

POWER

Power Supply	65 Watt or 90 Watt AC adapter with cord wrapping
Batteries	Smart Lithium-Ion (6-cell/53 WHr) with external LED battery gauge and ExpressCharge™ capability; Smart Li-Polymer Battery (6-cell) secondary module battery with ExpressCharge capability

CONNECTIVITY

Wired	56K³ internal modem; 10/100/1000⁴ Ethernet, DMI 2.0 and Wired for Management compliant
Wireless - WLAN	Intel PRO/Wireless 2915 802.11a/b/g; Intel PRO/Wireless 2200 802.11b/g; Dell Wireless 1470 802.11a/b/g; Dell Wireless 1370 802.11b/g (all up to 54Mbps⁵)
Wireless - WPAN	Dell Wireless® 350 Bluetooth internal card

EXPANDABILITY

Ports	Video, Audio (HP & Mic), USB 2.0 x 4, Modem (RJ-11), Ethernet (RJ-45), Serial, 15-hole video connector and S-video TV-out connector, Infrared sensor compatible with IrDA Standards 1.1 (Fast IR) and 1.0 (Slow IR)
1394	Optional Adaptec® 1394a CardBus Notebook Adapter (availability varies by country)
Modular Options	8X DVD+-RW⁶; CD-RW/DVD Combo; CD ROM; Floppy drive (internal/external); Second hard drive

SECURITY

User & System Security	Optional Trusted Platform Module (TPM) support; Primary system password; Hard Disk Drive password; Administrator password; Integrated Smart Card Reader, providing strong industry standard two factor user authentication (when used with a smart card and applicable software)
Physical Security	Kensington Microsaver Security Cable; Kensington Microsaver Lock; Media Module Security Lock, locks module to system via security screw

MANAGEABILITY

Manageability Software	Dell OpenManage™ Client Support
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ACCESSORIES

Mobile Accessories	USB Memory Keys; Auto-Air AC adapter; Additional 90 Watt AC adapter; Country Specific Power Cords; Carrying Cases; D/Bay External Media Bay; D/View Notebook Stand (for use with D/Port Port Replicator); D/Monitor Stand (for use with either D/Port or D/Dock); External USB keyboards and mice; External CRT and Flat Panel Monitors; External Speakers
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SERVICE

Service	3 Years Next Business Day On-site⁷ Service
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NOTE: Some applications and peripherals are not compatible with a 64-bit operating system environment. Be sure to verify with all of your current application vendors that your full application suite is compatible before purchasing a Dell Precision workstation with a 64-bit operating system.

Dell PCs use genuine Microsoft Windows. www.microsoft.com/piracy/howtotell. Dell's Terms and Conditions of Sales and Service apply and are available upon request. Dell cannot be held responsible for errors in typography or photography. 1 Weight shown is with Weight shown is with a 14.1" display, travel module, and 6-cell battery. Weights vary depending on configurations and manufacturing variability. 2 For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less. 3 Download speeds are limited to 53Kbps. Upload speeds are less (about 30Kbps). Speeds can vary by line condition and modem manufacturer. Analog phone line and service required. 4 This term does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. 5 For comparative purposes only. Actual speed varies with environment, equipment and other factors, and will be less. 6 Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility. 7 Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only. Dell, the Dell logo, Dell Precision, Express Charge, and TrueMobile are either registered trademarks or trademarks of Dell Inc. Intel, Intel Inside logo and Pentium are registered trademarks of Intel Corporation. Microsoft, Windows and the Windows logo are registered trademarks of Microsoft Corporation in the U.S. and other countries. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names of their products. Dell Inc. disclaims proprietary interest in trademarks and trade names other than its own. © Copyright 2005 Dell Inc. All rights reserved. Ad# 59960993

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