

Dell Precision™ M4300 Mobile Workstation



The Dell Precision M4300 mobile workstation is designed to provide engineers, video editors, architects and other active workstation professionals with the ideal balance of performance, reliability and secure, convenient mobility.

Exceptional Engineering Design, Analysis and Content Creation

Design and create better than ever on a tightly integrated machine that is capable and reliable on and off the road. Collaborate on site, design from remote locations or work anywhere in between. The Dell Precision M4300 mobile workstation blends the power and features of a workstation with the versatility of a notebook to enable you to run complex applications reliably.

Workstation Technologies Deliver Great Performance

Expand your creative potential with 64-bit Intel® Core™2 Duo processors, based on the same revolutionary Intel® Core™ micro architecture available today in Dell Precision 390, 490 and 690 workstations. Intel Core micro architecture is designed to provide wider pipelines, deeper memory buffers and faster instruction processing than previous Intel mobile micro architectures. These and other features help enable Intel Core 2 Duo processors to deliver increased processor performance.

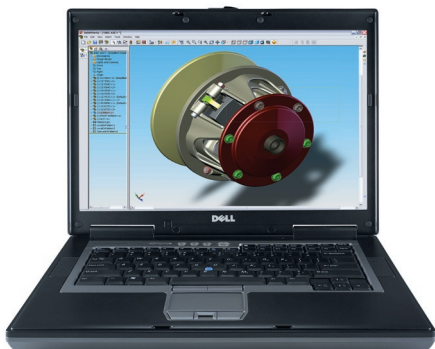
A key advantage of 64-bit computing through a 64-bit capable processor and operating system for the mobile workstation user is access to more memory. While Dell Precision mobile workstations support up to a maximum of 4GB² of physical memory, 64-bit computing permits you to work with large models and data sets in virtual memory today, and prepares you to run 64-bit software applications as they become available.

In addition to incredibly fast processors, the M4300 also features high speed DDR2 memory, robust NVIDIA Quadro® FX OpenGL graphics and a high resolution 15.4-inch wide aspect display in an easy-to-carry form factor starting at 2.9kg¹. Plus, you'll gain secure notebook mobility and reassurance from a comprehensive suite of certifications.

Dell Precision mobile workstations are built tough – with features like Mag-Alloy casings and a high degree of durability that you can rely on, day in and day out. In addition, the Dell Precision M4300 features a high degree of connectivity with your choice of integrated mobile broadband cards, as well as Dell's Wi-Fi Catcher™ so you can get connected when you need to. Long battery life, optional dual batteries, and iron-clad security help ensure you can work with peace of mind.

Work with Confidence

Dell partners with leading Independent Software Vendors (ISVs) to certify system and application compatibility so that your applications can run gracefully on Dell Precision workstations. Through rigorous testing, Dell also targets flawless compatibility and optimised performance in demanding work environments such as computer aided design and engineering, digital content creation and urban planning, which helps make the M4300 a viable platform for use as a primary workstation.



Dell Precision™ M4300 workstation



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SYSTEM

Processors	64-bit Intel® Core™2 Duo processors (dual-core) Up to 4MB L2 Cache, 800MHz Front Side Bus Up to T7700 (2.4 GHz speed)
Operating Systems	Dell recommends Genuine Windows Vista™ Ultimate; Genuine Windows Vista™ Business Genuine Windows® XP Professional
Chipset	Intel® 965PM Express chipset
Memory	Up to 4GB ² of DDR2 dual-channel ³ memory DIMMs up to 2GB at 667MHz
Wide Aspect Displays	15.4" wide aspect ratio displays Dell UltraSharp™ WUXGA with ALS (1920x1200 resolution) Dell UltraSharp™ WSXGA+ with ALS (1680x1050 resolution) with TrueLife™ display.
OpenGL Graphics	NVIDIA Quadro® FX 360M 512MB TurboCache ⁴ (256MB dedicated, up to an additional 256MB shared) ⁴
Hard Drives	Primary: Serial ATA up to 160GB ⁵ at 7200 RPM Secondary: Parallel ATA, 80GB ⁵ at 5400 RPM
Dimensions (HxWxD)	1.39" x 14.2" x 10.34"; 35.3 mm x 361 mm x 262.6 mm
Weight	Starting weight of 2.9 kg ¹ with 15.4" WXGA display and 6-cell battery, CD-ROM

POWER

Power Supply	90 Watt AC adapter with cord wrapping Primary: 9-cell/ 85 WHr Smart Li-Ion battery Primary: 6-cell/ 53 WHr Smart Li-Ion battery Secondary: 6-cell/48 WHr optional battery
Batteries	All batteries feature ExpressCharge™

CONNECTIVITY

Wired	56K ⁶ v.92 Internal Modem; 10/100/1000 Gigabit ⁷ Ethernet network interface adaptor
Wireless LAN⁸	Via internal mini-card or Express Card Dell Wireless 1390 802.11g Mini-card Dell Wireless 1490 802.11a/g Dual band Mini-card Dell Wireless 1505 802.11 a/g/Draft-n Intel® Pro/Wireless 4965 WiFi 802.11 a/g/Draft-n Intel® Pro/Wireless 3945 WiFi 802.11 a/g
Bluetooth	Dell Wireless 360 Bluetooth®

EXPANDABILITY

ExpressCard	54mm Express Card Slot; supports both 54mm and 34mm Express Cards
PC Card	One Type I or Type II
I/O Ports	S-video, Serial, 1394, docking connector, 3 USB, powered USB (D/Bay), VGA, headphone/speaker out, RJ-11, RJ-45, AC power
Docking	D/Port, D/Dock, D/View Notebook Stand, D/Monitor Stand
Modular Options	24X CD-ROM, 24X CD-RW/DVD, 8X DVD+/-RW ⁹ , 8X DVD-ROM ¹⁰ , Floppy Disk Drive, Secondary 6-cell/48 WHr smart Li-Polymer battery, 2nd 80GB ⁵ hard drive, or TravelLite module (No Optical)

SECURITY

Physical Security	Steel-reinforced Cable Lock Slot, Media Module and Hard Drive locks
User & System Security	Integrated Smart Card Reader, Trusted Platform Module 1.2 and optional UPEK® finger print reader. Dell Wave® Embassy™ Trust security software.
Network Security	802.11 WiFi Protected Access (WPA), 802.11i (WPA2), Virtual Private Networks (VPN) and 802.1x with EAP modes, CCX V4.0

MANAGEABILITY

Dell OpenManage™	Helps reduce the total cost of ownership by enabling IT departments to manage and support networked systems. OpenManage enables software deployment and migration, hardware configuration and system health, asset management and remote support. For more information visit: www.dell.com/openmanage
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SERVICE & SUPPORT

Service & Support	3-year Limited Warranty with Next Business Day On-Site Service ¹¹ . Service options vary by location.
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¹ Starting weight of 2.9 kg for the M4300 includes 15.4" WXGA display, 6-cell battery and CD-ROM. Weights vary depending on configurations and manufacturing variability.

² The total amount of available memory will be less than 4GB. The amount less depends on the actual system configuration

³ Dual-channel memory requires 2 each of the same capacity memory DIMMs.

⁴ The total of local and shared system memory used by this graphics card is up to 512MB. Local on-board memory is 256MB.

⁵ For hard drives, GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. With Dell Factory Image Restore installed, Windows Vista users will have 10GB of their hard drive capacity set aside for a recovery image.

⁶ Modem 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.

⁷ The term Gigabit Ethernet does not connote an actual operating speed of 1 GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

⁸ Where wireless access is available. Additional access charges apply in some locations.

⁹ Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media with +RW/+R drive provides maximum compatibility; R-capability to burn disc once; RW-capability to burn disc multiple times. Special media/disc required, and third party software may also be required for certain applications.

¹⁰ The DVD region code can be changed up to 5 times and will then be locked on the final region code selected.

¹¹ Technician, replacement part or unit (depending on service contract) will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions (on site and/or next business day service not available in some locations) and terms of service contract. Service timing dependent upon time of day call placed to Dell. Defective unit must be returned or paid for. Replacements may be refurbished.

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