

# Dell Precision™ M60: Mobile Workstation



The Dell Precision M60 mobile workstation offers workstation users a terrific combination of both worlds - the performance of a workstation and the mobility of a notebook. With outstanding computing power, a stunning wide aspect high resolution display, lightning fast OpenGL graphics, lots of memory, a dazzling new Silver Ion ID, and the reassurance of a comprehensive set of ISV certifications as well as workstation service and support, the Dell Precision M60 is the right step towards increasing productivity, whether you are designing planes, trains or automobiles, creating cutting edge graphics and making movies, or simply want the most impressive mobile computing platform on the block!!



## Why buy Dell Precision mobile workstations?

With a terrific combination of workstation class computing performance, features, workstation application certifications, and notebook mobility, Dell Precision mobile workstations provide users in the CAD, analysis, and DCC segments the opportunity to increase productivity by now having the ability to work collaboratively, work remotely, and have a high quality workstation class system for demonstrations.

## High computing performance through Intel® Pentium® M processors and the Intel 855PM chipset

The Dell Precision M60 mobile workstation features the latest mobile core technology from Intel, the Intel Pentium M processor and the Intel 855 PM chipset. Intel® Pentium® M processors are based on a new micro-architecture that delivers high computing power through the use of advanced techniques including micro-ops fusion and advanced branch prediction. The Intel Pentium M processor also supports a 400MHz power optimized system bus, a 1MB low power L2 cache, and enhanced Intel® SpeedStep® Technology. The Dell Precision M60 supports up to 2GB DDR333MHz high speed memory.

## Spectacular graphics and vibrant Dell UltraSharp™ Wide Aspect LCD display

The Dell Precision M60 features the new NVIDIA® Quadro™ FX Go700 graphics subsystem with 128MB of 128-bit DDR memory and hardware accelerated OpenGL support for graphics-intensive workstation applications. This 4X AGP solution features programmable pixel and vertex shaders, a high performance GPU, tuned application utilities to enhance performance while running key CAD and DCC applications, and support for dual external displays. The Dell Precision M60 also offers a Wide Aspect Ratio, 15.4" UltraSharp™ WUXGA Active Matrix (TFT) display with 1920 x 1200 resolution or a WSXGA+ display with 1680 x 1050 resolution. The UltraSharp LCD technology improves viewing clarity with higher brightness and wider viewing capabilities than standard LCD displays.

## ISV certifications

The Dell Precision M60 mobile workstation is certified on a wide variety of workstation class software applications including those in the MCAD, DCC, AEC and MCAE segments.

## Intuitive form factor & design

The Dell Precision M60 has a dazzling new Silver Ion design, strong magnesium alloy frame, and easy to use modular bay.

## Docking solutions

The D-Family docking solutions supported on the Dell Precision M60 allow you to enhance the functionality of mobile workstations - the D/View notebook stand elevates the notebook's LCD to a comfortable viewing position, and the D/Port Advanced Port Replicator and the D/Dock Expansion Station provide a comprehensive set of ports and connectivity options, including dual video ports (one VGA and one DVI) for external monitor connectivity.

## Dell wired and wireless networking solutions

The Dell Precision M60 supports a wireless networking mini-PCI card, 56K<sup>1</sup> V.92 capable modem and 10/100/1000 wired network controller. The wireless options include a choice of either the TrueMobile™ wireless LAN solutions or the Intel® Pro Wireless MiniPCI card. The Dell Precision M60 also features an optional TrueMobile 300 integrated Bluetooth solution. With Gigabit<sup>2</sup> Ethernet standard on this system, workstation users can achieve high data rate transfers across their network (dependent on the network infrastructure) and benefit from investment protection for future network upgrades to Gigabit<sup>2</sup> Ethernet speeds.

## Integrated Smart Card and security

The integrated Smart Card reader in the Dell Precision M60, when used in combination with applicable software, provides a robust solution for user authentication.

## 3 Years International Service and Support<sup>3</sup>

The Dell Precision M60 is designed to exceed your expectations and is backed by Dell's exceptional service and support with 3 years Next Business Day On-site<sup>3</sup> service and International programs across many countries.

Easy as **DELL™**

Visit [www.dell.com](http://www.dell.com) for more information.

# Dell Precision M60



## SYSTEM

<b>Processors</b> .....	Intel® Pentium® M processors
<b>Operating System Versions Available</b> .....	Windows® 2000 Professional; Windows XP® Professional Dell recommends Microsoft® Windows® XP Professional for Business.
<b>Cache</b> .....	1MB on-die L2 cache
<b>Chipset</b> .....	Intel 855PM Chipset
<b>Memory</b> .....	Double Date Rate (DDR) SDRAM at 266MHz (PC2100); up to 2GB max capacity
<b>Displays</b> .....	15.4" UltraSharp™ WUXGA TFT LCD
<b>Graphics</b> .....	Video Controller - NVIDIA® Quadro FX Go700, 128MB DDR SDRAM; OpenGL hardware acceleration
<b>Hard Disk Drives*</b> .....	Up to 60GB capacity, up to 7,200 RPM speed, EIDE/ATA-100 *Optional 2nd HDD Module for media bay or D/Dock Expansion Station media bay
<b>Modem</b> .....	.56K <sup>1</sup> v.92 internal modem
<b>Wired LAN</b> .....	.10/100/1000 Ethernet, DMI 2.0 and Wired for Management compliant
<b>Wireless LAN</b> .....	Choice of: - Dell TrueMobile™ 1300 WLAN (802.11b/g) Mini-PCI Card; Wi-Fi compatible - Dell TrueMobile™ 1400 Dual Band WLAN (802.11a/b/g) Mini-PCI Card; Wi-Fi compatible - Intel® Wireless 2100 WLAN (802.11b) MiniPCI; 802.11b industry standard; Wi-Fi compatible
<b>PC Card Slots</b> .....	.One Type I or Type II
<b>Audio</b> .....	.Audio Type - AC97 (Soft Audio); Integrated Stereo Speakers
<b>Batteries</b> .....	.Primary Battery: Smart Lithium-Ion (9-cell/72 WHr) with external LED battery gauge and ExpressCharge™ capability; Secondary Module Battery - Smart Lithium-Ion Battery (6-cell/48WHr) with LED battery gauge and ExpressCharge™ capability
<b>Keyboard</b> .....	.87-Key US; 88-Key Europe; 91-Key Japan; Key travel 2.7mm; Key spacing - 19mm
<b>Pointing Device - Dell DualPoint</b> .....	.Touch Pad - PS/2 Compatible; Track Stick - PS/2 Compatible
<b>Power Supply</b> .....	.90 Watt AC adapter with cord wrapping
<b>System Dimensions/Weight*</b> .....	.361mm (w) x 276mm (d) x 39mm (h); 14.2" (w) x 10.9" (d) x 1.5" (h) With Travel module and 9-cell battery: 3.1kg/7.0lbs; With CD-ROM module and 9-cell battery: 3.4kg/7.4lbs *Weights vary depending on configurations and manufacturing variability.

## I/O PORTS

<b>Serial port</b> .....	.9-pin connector; 16550-compatible, 16-byte buffer
<b>Parallel port</b> .....	.25-hole connector; normal, bi-directional or ECP
<b>Video</b> .....	.15-hole connector
<b>Audio</b> .....	.One headphone and one microphone
<b>Infra Red</b> .....	.1 Infrared sensor compatible with IrDA Standard 1.1 (Fast IR) and IrDA Standard 1.0 (Slow IR)
<b>Universal Serial Bus</b> .....	.Three USB 2.0 - compliant connectors; One D/Bay external media bay connector
<b>IEEE 1394</b> .....	.4-pin, Mini-1394, Non-powered
<b>Docking Connector</b> .....	.280-pin for the D/Dock Family Expansion Station & D/Port Family Advanced Port Replicator
<b>S-Video</b> .....	.7-pin mini DIN (SP/DIF adapter included with the computer)
<b>Modem</b> .....	.RJ-11 port
<b>Standard Modules (included)</b> .....	.CD-ROM Drive: 24X
<b>Optional Modules</b> .....	.Floppy Disk Drive Module: 3.5-inch, 1.44MB; USB dongle for External FDD operation; CD-RW (24X/10X/24X); DVD-ROM - 8X; CD-RW/DVD-ROM Combo Drive (8X/24X/10X/24X); 40GB Second Hard Drive; DVD +RW; Second 6-cell/ 48WHr Smart Lithium-Ion Battery

## DOCKING OPTIONS

<b>D/Dock Expansion Station</b> .....	.Ports Offered: Power input, RJ-11, RJ-45, DVI, VGA, S-Video, Parallel, Serial, 2-PS/2, SPDIF, 4 USB 2.0, external D/Bay port, headphone, D/Module bay and 1 x PCI card expansion slot
<b>D/Port Advanced Port Replicator</b> .....	.Ports Offered: Ports Offered: Power input, RJ-11, RJ-45, DVI, VGA, S-Video, Parallel, Serial, 2-PS/2, SPDIF, 4 USB 2.0, external D/Bay port, headphone

## MANAGEABILITY

<b>Dell OpenManage™ Client</b> .....	.OpenManage™ Client is designed to reduce the total cost of ownership by allowing customers to manage, support and track notebooks in a networked environment. ITmanagers can remotely access and manage portable specific attributes such as battery status, power management settings, PC Card information, and docking system connections. Asset Tag and Property Ownership Tag editing is also supported for comprehensive asset management. OpenManage™ Client adheres to industry standards such as DMI 2.0 and SMBIOS specifications
<b>Mobile User Security - Integrated Smart Card reader</b> .....	.Provides strong industry standard two-factor user authentication (when used with a smart card and applicable software) Card support: ISO 7816 1/2/3/4 microprocessor cards (T=0, T=1), 3v & 5v, Java Card Reader certification: WHQL certified for Microsoft PC/SC, EMV Level 1, 9600 to 115200 BPS

## SECURITY

<b>Mobile User Security - Software</b> .....	.Primary system password, Administrator password, Hard Disk Drive password
<b>Mobile Physical Security - Cable Lock Slots</b> .....	.Lock slots to secure system, system hard drive and docking solutions
<b>Mobile Physical Security - Media Module Lock</b> .....	.Media modules can be locked to prevent removal
<b>Dell TrueMobile 300 Bluetooth Module</b> .....	.Bluetooth 1.1 with BQB and BQTF Certification
<b>Dell TrueMobile 1170 Access Point</b> .....	.SNMP and Remote Management features; IEEE 802.11b industry standard; Wi-Fi® compatible
<b>Dell TrueMobile 1184 Wireless Broadband Router</b> .....	.4 Fast Ethernet ports, DHCP server capability and NAT firewall built-in. Interoperable with IEEE 802.11b compliant systems, WECA Wi-Fi standard compliant

## WIRELESS COMMUNICATIONS OPTIONS

## MOBILE ACCESSORIES

<b>Mobile Accessories</b> .....	.USB Memory Keys; Deluxe Leather Carrying Case; Deluxe Nylon Carrying Case; Second 90 Watt AC adapter; 17 Country Specific Power Cords; D/Bay External Media Bay; D/View Notebook Stand (can only be used with D/Port Port Replicator; D/Monitor Stand (can be used with both D/Port and D/Dock); USB Keyboard and Mice; External CRT and Flat Panel Monitors; Harmon Kardon External Speakers; S-Video to Composite Out Cable; Additional SP/DIF adapter
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## SERVICE & SUPPORT

<b>SERVICE &amp; SUPPORT</b> .....	.3 Years Next Business Day On-site <sup>3</sup> Service
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1. 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.

2. This term indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and 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

3. Program may be provided by third party. Availability limited. Other conditions apply. See [www.dell.com/us/en/gen/services/service\\_plans.htm](http://www.dell.com/us/en/gen/services/service_plans.htm) for current list of eligible systems and selected countries. External devices excluded; availability of specific parts varies in each country.

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