## Dell Precision<sup>™</sup> 390 Workstation

Your work isn't entry level, so why consider a workstation that delivers anything less than advanced levels of performance? With the Dell Precision 390 you don't have to. Experience the power, scalability, and reliability you've been dreaming about with a system that's specifically designed for professionals as demanding as their complex applications.



Key architectural advancements on the Dell Precision 390 workstation are designed to enable groundbreaking performance, rock-solid reliability, and ultimate scalability to design, create, analyze and animate without compromise. Break performance barriers, without breaking the bank, on an optimized workstation that lets you power through complex tasks and complete your projects fast.

- Revolutionary new Intel<sup>®</sup> Core<sup>™</sup> processor microarchitecture redefines performance with features that help to deliver performance gains of up to 54% in compute performance over comparable Intel<sup>®</sup> Pentium<sup>®</sup> D and Extreme Edition processors<sup>1</sup>
- Up to 2TB<sup>2</sup> of fast local storage with flexible options that include economical Serial ATA or highly reliable Serial Attached SCSI
- Support for up to 8GB<sup>3</sup> of high speed DDR2 ECC or non-ECC memory enabling high performance by reducing the need to swap large amounts of data to disk
- Innovative chassis with additional venting over previous generations provides enhanced cooling to internal components without compromising acoustics

## **Big Changes in a Micro-architecture**

The Dell Precision 390 builds upon the revolutionary new Intel Core processor microarchitecture to deliver an optimized workstation that breaks performance barriers when compared with the NetBurst architecture of previous generations. What's the difference? Advanced features that combine to deliver a computing experience that's incredibly rich, incredibly powerful, and incredibly fast.

- Wide Dynamic Execution—More data can be processed per clock cycle
- Advanced Smart Cache—Optimises memory to help improve performance running complex applications
- Smart Memory Access—Designed to lower memory latency and improve data access
- Advanced Digital Media Boost—Allows one complete 128-bit execution step in a single clock cycle rather than two for fast multimedia performance
- Intelligent Power Capability—Designed to improve power management

## **Visual Realism with High-Performance OpenGL Graphics**

Dell Precision offers an intelligent selection of ISV certified workstation-class graphics cards that can satisfy a range of customer needs from superb OpenGL 3D performance to dependable and affordable 2D performance.

#### **Power to Scale**

With a choice of ECC or non-ECC memory, optional RAID capability and a flexible dual-orientation chassis, the Dell Precision 390 provides a highly scalable architecture that delivers outstanding speed and reliability to the cost-conscious professional. Imagine having the freedom to work the way you've always wanted. With Dell Precision you can. Plus, d with ISV application certification, you know your system is performance tuned to help ensure that your applications will run smoothly.

### Peace of Mind Through ISV Application Certification

Dell partners with leading Independent Software Vendors (ISVs) to certify system and application compatibility to help ensure flawless compatibility and optimized performance in demanding workstation environments. And, to assure access to the latest productivity enhancing technology solutions, Dell invests in the workstation ISV community by providing the hardware platforms needed to further multithreaded application development. By maintaining strong relationships with software developers, Dell engineers can provide you with ongoing optimization and support, should you need them.













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# Dell Precision<sup>™</sup> 390 Workstation

Processors      Dual-core Intel® Core® 20 with 1066MHz FSB, AMB L2 cache, KD, VT, EIST        Dual-core Intel® Core® 20 with 1066MHz FSB, AMB L2 cache, KD, VT, EIST        Single-core Intel Pentium® 4 with 800MHz FSB, AMB L2 cache, HT, XD, EIST (Six series)        All processors support 64-bit computing with Intel EM64T        Operating systems      Dell recommends Microsoft Windows XP Professional CP Edition; Windows Vista® capable*        Red Har® Enterprise Linux WS v4 (Ma2L) Red Hat Enterprise Linux WS v4 (Intel EM64T)        Chipaet      Intel 97SK Express chipset        Memory      Four DIMM sites support up to 660° dual-channe1 DDR2 533 or 667MHz non-ECC and ECC memory        Fisha BIOS      BMB fisha memory for system BIOS, SMBIOS 23.1 support        Graphics      Support for PCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including:        Hard drives      SATA 30Gb/s 200EMVIDIA Quadro NX 9500: MVIDIA Quadro NY 9500: MVIDIA	D	Dural and latel® Caus™ 2 Estances with 10000 MHz FCD, 404D L2 and to VD. VE FIGT
Single-core Intel Pentium <sup>®</sup> 4 with 800MHz FSB. 2MB 12 cache, HT, XD, EIST (6xx series)      All processors support 64-bit computing with Intel EM64T      Operating systems    Dell recommends Microsoft "Undows XP Professional A&E dition; Windows Vista" capable <sup>1</sup> Red Hat" Enterprise Linux Ws v4 (IA32); Red Hat Enterprise Linux Ws v4 (Intel EM64T)      Chipset    Intel 97X Express chipset      Memory    Four DIMM slots support up to 806 <sup>19</sup> dual-channel <sup>1</sup> DDR2 533 or 667MHz non-ECC and ECC memory      Flash 800S    BMB flash memory for system 800S; SMB0R 23.1 support      Graphics    Support for PCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro P X 4500; VVIDIA Quadro XV 285.All graphics cards support dual monitor configurations      Hard drives    SATA 3.06/x; 2200RPM with BMB DataBurst Cache <sup>1</sup> up to 750GB <sup>1</sup> , 10X RPM with 16MB DataBurst Cache up to 150 GB <sup>2</sup> SAS: 10K RPM up to 300GB <sup>1</sup> , 15,000RPM up to 1466B <sup>1</sup> (requires SAS 5/R controller card) Chassis supports up to four internal SATA drives (2.018 <sup>1</sup> xtorage maximum) or three SAS drives      Removable Storage    Optional. DVH-74WC, CD-MVVD Comon, CD-RWV, DVD-RoMV; CD-RMU, US media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>1</sup> Hard drive controller    Int: SATA 3.06/s; controller with support for RAID 0, 1, 5 and 10, optional SAS 5/R controller card for SAS RAID 0, 1      Hard drive controller    Integrated Broadcom <sup>10</sup> 5754 Gigabli Ethernet <sup>1</sup> controller with Remote Wake Up and PXE support	Processors	
All processors support 64-bit computing with Intel EM64T        Operating systems      Dell recommends Microsoft* Windows* XP Professional 6re Business Genuine Windows XP Professional (Breall Windows XP Professional Are Business)        Genuine Windows XP Professional (Breall Windows XP Professional Are Business)        Memory      Four DIMM slots support up to 86B' dual-channel' DDR2 533 or 667MHz non-ECC and ECC memory        Flash BIOS      BMB flash memory for system BIOS (SMBIDS 2.3.1 support        Graphics      Support for PCI Express to Big sphils carefully up to 512MB graphics memory including: NVDIA Quadre PX 4500; NVDIA Quadro NX 2850, All graphics cards support dual monitor configurations        Hard drives      SAIA 3.06/Js : 200FPM with EMB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IMBB DataBust Cache <sup>®</sup> up to 7506F, 10K RFM with IM		
Operating systems      Dell recommends Microsoft* Windows <sup>®</sup> XP Professional for Business        Genuine Windows XP Professional, Genuine Windows XP Professional x46 Edition; Windows Vista" capable <sup>4</sup> Red Haf* Entryrise Linux WS v4 (IASE), Red Hat Entryrise Linux WS v4 (IASE), Red WE Entryrise Linux WS v		•
Genuine Windows XP Professional; Genuine Windows XP Professional x64 Edition; Windows Vista" capable' Red Hat <sup>®</sup> Enterprise Linux WS v4 (IA32); Red Hat Enterprise Linux WS v4 (Intel EM64T)      Object    Intel JPSX Express of hipset      Memory    Four DIMM slots support up to 608 <sup>17</sup> dual-channel DDR2 533 or 667MHz non-ECC and ECC memory      Flast BIOS    BMB flast memory for system BIOS; SMBIOS 2.3.1 support      Graphics    Support for PCI Express XB graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro <sup>®</sup> FX 4500, NVIDIA Quadro FX 3500, NVIDIA Quadro FX 3450, ATT FinGEI 7200; NVIDIA Quadro FX550, ATT FinGEI V3400, NVIDIA Quadro NVS 295. All graphics cards support dual monitor configurations      Hard drives    SATA 3 06b/s: 7200RPM with BMB DataBust Cache <sup>®</sup> up to 7506B <sup>1</sup> ; 10K RPM with 16MB DataBust Cache <sup>®</sup> up to 7506B <sup>1</sup> ; 10K RPM with 16MB DataBust Cache <sup>®</sup> up to 7506B <sup>1</sup> ; 10K RPM with 16MB DataBust Cache <sup>®</sup> up to 7504B <sup>1</sup> ; 0C and vise 2000B <sup>1</sup> ; 15,000RPM up to 1466B <sup>1</sup> (requires SAS 5/iR controller card) Chassis supports up to four internal SATA drives (2.01B <sup>1</sup> storage maximum) or three SAS drives      Removable Storage    Optional: DVA/-RW <sup>1</sup> ; CD-RW/DVD Combo; CD-RW, DVD-ROM <sup>1</sup> ; CD-ROM, USB media card reader; USB Floppy Drive; DIUSB Memory Key put to 1510B <sup>1</sup> Hard drive controller    Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet <sup>1</sup> controller with Remote Wake Up and PXE support      Audio controller    Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet <sup>1</sup> controller with Remote Wake Up and PXE support      Duch-onentation destop    Mini-tower orientation; (HxWxD) 17.6 <sup>1</sup>	Operating systems	
Ref Haff* Enterprise Linux WS v4 (IA32); Ref Hat Enterprise Linux WS v4 (Intel EMB4T)      Chipset    Intel 975X Express chipset      Memory    Four DIMM slots support up to 860 <sup>1</sup> dual-channel* DDR2 533 or 667/MHz non-ECC and ECC memory      Flash BIOS    8MB flash memory for system BIOS; SMBIOS 2.13 support      Graphics    Support for FCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including: NVDIA Quadro* FX 4500; NVDIA Quadro FX 3500, NVDIA Quadro FX 3450; ATI* FireGL* 7200, NVDIA Quadro FX550; ATI FireGL*7200RPM with 8MB DataBurst Cache* up to 750GB*; 10K RPM with 16MB DataBurst Cache up to 16 GP      Hard drives    SATA 30GD/s; 7200RPM with 8MB DataBurst Cache* up to 750GB*; 10K RPM with 16MB DataBurst Cache up to 16 GP      SAS: 10K RPM up to 300GB*; 15,000RPM up to 146GB* (requires SAS 5/R controller card) Chasiss supports up to four internal SATA drives 2.01PF Storage maximum) or three SAS drives      Removable Storage    Optional: DVD-/AW*; CD-RW/DVD Combo; CD-RW; DVD-ROM*; CD-ROM; USB media card reader; USB Floppy Drive; Deli USB Memory Keys up to 512MB*      Addo controller    Integrated Broadcom* 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support      Addo controller    Integrated High Definition Adudi (RV 10 Specification) with Signatel STAC5200 High Definition Audio (CDDEC and Intel ICH7PA AC37) High Definition digital controller      Optional Modem    Deli 56K* V22 Data/Fax PCI modem      CHASSIS    Emetal-Two 35* HDD bay; External - Two 525* optical bays, one 3.5* flex bay with	Operating systems	
Chipset      Intel 975X Express chipset        Memory      Four DIMM slots support up to BGB' dual-channel* DDR2 533 or 667MHz non-ECC and ECC memory        Flash BIOS      BMB Bah memory to System BIOS, SMBIOS 2.3.1 support        Graphics      Support for PCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro* FX 4300, NVIDIA Quadro FX 3300, NVIDIA Quadro FX 3460, ATT FiecL* 7200, NVIDIA Quadro FX 5565, ATI FiecL V2400, NVIDIA Quadro FX 3500, NVIDIA Quadro FX 3450, ATT FiecL* 7200, NVIDIA Quadro FX 5565, ATI FiecL V2400, NVIDIA Quadro FX 3503, All graphics cards support dual monitor configurations        Hard drives      SATA 3.06b/s: 7200RPM with 8MB DataBurst Cache* up to 7506B', 10K RPM with 16MB DataBurst Cache up to 160 GB*        SAS: 10K RPM up to 3006B', 15,000RPM up to 146GB' (requires SAS 5/iR controller card) Chassis supports up to four internal SATA drives [2.0TB* storage maximum] or three SAS drives        Removable Storage      Optional: DVD+/RW*, CD-RW/DVD Combo; CD-RW, DVD-ROM*; CD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB*        Hard drive controller      Int. SATA 3.06b/s: controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1        Network controller      Integrated Broadcom* 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support        Audio controller      Integrated Broadcom* 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support        Optional Audio      Doul SAF* XF* XremeMusic (D* with Dolby*		
Memory    Four DIMM slots support up 06 GB <sup>4</sup> dual-channel <sup>6</sup> DDR2 533 or 667MHz non-ECC and ECC memory      Flash BOS    BMB flash memory for system BDOS, SMBIOS 2.31 support      Graphics    Support for PCI Express x16 graphics cards up to 150 warts and with up to 512MB graphics memory including: NVIDIA Quadro <sup>®</sup> FX 4500; NVIDIA Quadro FX 3500; NVIDIA Quadro FX 3450; ATI <sup>®</sup> FireGL <sup>®</sup> 7200; NVIDIA Quadro FX550; ATI FireGL V2400; NVIDIA Quadro NVS 285. AII graphics cards support dual monitor configurations      Hard drives    SA5: 10K FM up to 3006P <sup>1</sup> , 15,000FM up to 146GB <sup>1</sup> (requires SA5 5/R controller card) Chassis supports up to four internal SATA drives (2019 Strage maximum) or three SAS drives      Permovable Storage    Optional: DVD <sub>7</sub> /-RW <sup>5</sup> ; CD-RW/DVD Combo; CD-RW, DVD-ROM <sup>1</sup> ; CD-ROM; USB media card reader; USB Floppy Drive; Dail USB Memory Keys up to 512ME <sup>4</sup> Hard drive controller    Integrated Bio Defay for SP4 Gigabit Ethernet <sup>4</sup> controller with Remote Wake Up and PXE support      Audio controller    Integrated Bio Definition Audic RM2      Hard drive controller    Integrated Bio Definition Audic RM2      Optional Audio    Sound Blaster <sup>*</sup> XFr <sup>®</sup> XtremeMusic (D <sup>®</sup> with Defby <sup>®</sup> Digital 5.1      Optional Audio    Sound Blaster <sup>*</sup> XFr <sup>®</sup> XtremeMusic (D <sup>®</sup> with Defby <sup>®</sup> Digital 5.1      Optional IVO    IEEE T394a available with add-in card; connector located on front panel      CHASSIS    Mini-tower orientation: (HxWXD) 17.5 <sup>®</sup> x 6.8 <sup>®</sup> x 18.4 <sup>°</sup> ; 44.7 cm x 1.1 cm x 46.8 cm      Stan	Chinest	
Flash BIOS      BMB flash memory for system BIOS; SMBIOS 2.3.1 support        Graphics      Support for PCI Express XIB graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro FX 4500; NVIDIA Quadro FX 3300; NVIDIA Quadro FX 3300; ATF FireGL 7200; NVIDIA Quadro FX 5300; ATF FireGL 7200; NVIDIA Quadro FX 5300; MIDIA Quadro FX 3300; NZIDIA Quadro FX 5300; MIDIA Quadro FX 5400; MIDIA Quadro FX 5400; MIDIA QUADRO FX, CD-RNU VD-ROW; CD-ROW; CD-RO		
Graphics      Support for PCI Express x16 graphics cards up to 150 watts and with up to 512MB graphics memory including: NVIDIA Quadro <sup>®</sup> TX 4500. NVIDIA Quadro TX 3500. NVIDIA Quadro NX 3505. All reject vadio ronfigurations        Hard drives      SATA 3.06b/s: 7200RPM with 8MB DataBurst Cache <sup>®</sup> up to 750GB <sup>9</sup> , 10K RPM with 16MB DataBurst Cache up to 160 GB <sup>1</sup> SAS: 10K RPM up to 300GB <sup>0</sup> , 15,000RPM up to 146GB <sup>9</sup> (requires SAS 5/IR controller card) Chassis supports up to four internal SATA drives (2.0TB <sup>2</sup> storage maximum) or three SAS drives        Removable Storage      Optional: DVD+/RW <sup>2</sup> , CD-RW/DVD Combo; CD-RW; DVD-ROM <sup>2</sup> , CD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>6</sup> Hard drive controller      Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet <sup>e</sup> controller with Remote Wake Up and PXE support        Audio controller      Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet <sup>e</sup> controller with Remote Wake Up and PXE support        Audio controller      Integrated Rip Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC37/ High Definition (JD <sup>1</sup> S & 6.8 <sup>°</sup> x 18.4 <sup>°</sup> ; 44.7 cm x 17.1 cm x 46.8 cm        Dual-orientation desktop      Mini-tower orientation; (HdWxD) 17.6 <sup>°</sup> x 6.8 <sup>°</sup> x 18.4 <sup>°</sup> ; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 5.5 <sup>°</sup> HOD bays; External - Two 5.5 <sup>°</sup> Gictal bays, one 3.5 <sup>°</sup> Rex bay with an additional 3.5 <sup>°</sup> bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v	,	
NVIDIA Quadro® FX 4500; NVIDIA Quadro FX 3500; NVIDIA Quadro FX 3450; ATI® FireGL® 7200; NVIDIA Quadro      Hard drives    SATA 3.06b/s: 7200RPM with 8MB DataBurst Cache® up to 750GB <sup>4</sup> ; 10K RPM with 16MB DataBurst Cache up to 160      GB <sup>2</sup> SAS: 10K RPM up to 300GB <sup>4</sup> ; 15,000RPM up to 146GB <sup>2</sup> (requires SAS 5/rR controller card) Chassis supports up to four internal SATA drives (2.0TB <sup>4</sup> storage maximum) or three SAS drives      Removable Storage    Optional: DUO+/RW; CD-RW/DVD Combo; CD-RW, DUD-ROM; CD-ROM, USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>4</sup> Hard drive controller    Integrated Broadcom® 5754 Gigabit Ethernet® controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom® 5754 Gigabit Ethernet® controller with Sigmatel STAC9200 High Definition Audio CODEC and Integrated High Definition Audie (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Integrated High Definition digital controller      Optional Modem    Dell 56 <sup>11</sup> v.92 Data/Fax PCI modem      CHASSIS    Unal-orientation: (HwWD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5" HDD Bays; External - Two 5.25" optical bays, one 3.5" fex bay with an additional 3.5" bay in mini-tower; One PCIe x 16 graphics slot, One PC-e x 8 slot wired as x4, One PCIe x 1 slot; Three 5v PCI 32bit/33Mb; slots      Standard I/0 ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One paralle1; Two PS/2; One RJ-45; Microphone and headphone conn		
Hard drives    SX550, ATI FireGL V3400; NVIDIA Quadro NVS 285. All graphics cards support dual monitor configurations      Hard drives    SATA 3.06b/s: 7200FPM with BMB DataBurst Cache <sup>®</sup> up to 750GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 160GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 750GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 750GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 750GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 750GF <sup>®</sup> , 10K RPM with 16MB DataBurst Cache <sup>®</sup> up to 1600 Cache <sup>®</sup> , 2016 <sup>®</sup> storage maximum) or three SAS drives      Removable Storage    Optional: DVD-/ RW, °CD-RW/DVD Combo; CD-RW, DVD-R0M; °CD-R0M, USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>®</sup> Hard drive controller    Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet <sup>e</sup> controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition Audio (Bev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition fuel actorroller      Optional Audio    Dell 56K <sup>®</sup> v.92 Data/Fax PCI modem      CHASSIS    Usab-orientation: (HxWAD) 17.6 <sup>®</sup> x 6.8 <sup>®</sup> x 18.4 <sup>°</sup> ; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5 <sup>°</sup> HDD bays; External - Two 5.25 <sup>°</sup> optical bays; one 3.5 <sup>°</sup> flex bay with an additional 3.5 <sup>°</sup> bay in mini-tower; One PCle x 8 slot wired as x4, One PCle x 1 slot; Three 5V PCl 32bit/33Mbr      Slots & Bays    Internal - Two 3.5 <sup>°</sup> HDD bays; External - Two 5.25 <sup>°</sup> optical bays; one 3.5 <sup>°</sup> flex bay with a m	diapinos	
Hard drives    SATA 3.0Gb/s: 7200RPM with 8MB DataBurst Cache* up to 750GB*, 10K RPM with 16MB DataBurst Cache up to 160 GB*      SAS: 10K RPM up to 300GB*, 15,000RPM up to 146GB* (requires SAS 5/iR controller card) Chassis supports up to four internal SATA drives (2.0TB* storage maximum) or three SAS drives      Removable Storage    Optional: DVD+/RW*, CD-RW/DVD Combo; CD-RW; DVD-ROM*; CD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB*      Hard drive controller    Int saTA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1      Network controller    Integrated High Definition Audio fRev 1.0 Specification) with Signatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition digital controller      Optional Audio    Sound Blaster* X-F1* XtmemeMusic (D)* with Dolby* Digital 5.1      Optional Modem    Dell 56K** v92 Data/Fax PCI modem      CHASSIS    Mini-tower orientation: (HbWXD) 17.6* x 6.8* x 18.4*; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5* HDD bays; External - Two 5.25* optical bays, one 3.5* flax bay with an additional 3.5* bay in mini-tower; One PCIe x16 graphics slot, one PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5w PCI 32bit/33Mbz slots      Standarl //O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector for font panel      Power Supply    375 wats Power Factor Correcting (PFC) power supply		
GB <sup>2</sup> SAS: 10K RPM up to 300GP, 15,000RPM up to 146GP (requires SAS 5/R controller card) Chassis supports up to four internal SATA drives (2.0TB' storage maximum) or three SAS drives      Removable Storage    Optional: DVD+/RW, CD-RW/DVD Combo; CD-RW, DVD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>4</sup> Hard drive controller    Int. SATA 3.05b/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/R controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom <sup>6</sup> 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 10, Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intell (CH7R AC97/ High Definition digital controller      Optional Audio    Sound Blaster <sup>6</sup> X-F <sup>4</sup> X tremeMusic (D) <sup>9</sup> with Dolby <sup>6</sup> Digital 5.1      Optional Modern    Dell 56K <sup>11</sup> v.92 Data/Fax PCI modern      CHASSIS    Dual-orientation desktop      Dual-orientation desktop    Inini-tower orientation: (HxWxD) 17.6 <sup>11</sup> x 6.8 <sup>11</sup> x 18.4 <sup>41</sup> ; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5 <sup>11</sup> HDD bays; External - Two 5.25 <sup>10</sup> optical bays, one 3.5 <sup>11</sup> flex bay with an additional 3.5 <sup>11</sup> bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5w PCl 32bit/33Mtz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial [2nd serial optional]; One parallel; Two PS/2; One RJ-45; Microphone and headphone connector of rot npanel; Two rear	Hard drives	
SAS: 10K RPM up to 300GB <sup>3</sup> , 15,000RPM up to 146GB <sup>2</sup> (requires SAS 5/iR controller card)      Chassis supports up to four internal SATA drives (2.0TB <sup>3</sup> storage maximum) or three SAS drives      Removable Storage    Optional: DVD+/AW <sup>2</sup> , CD-RW/DVD Combo; CD-RW, DVD-ROM <sup>3</sup> ; CD-ROM; USB media card reader; USB Floppy      Drive; Dell USB Memory Keys up to 512MB <sup>40</sup> Hard drive controller    Int: SATA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom <sup>6</sup> 5754 Gigabit Ethernet <sup>4</sup> controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel (CH7R AC97/ High Definition digital controller      Optional Modem    Dell 56K <sup>11</sup> vg.2 Data/Fax PCI modem      CHASSIS    Dual-orientation desktop    Mini-tower orientation: (HxWxD) 17.6 <sup>11</sup> x 6.8 <sup>11</sup> x 18.4 <sup>41</sup> ; 44.7 cm x 17.1 cm x 46.8 cm      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional), One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Steurity    Tusted Platform Module 1.2; WAVE Embasasy Trust Suite; Setup/BIOS Password; I/O Interf	Hard drives	
Chassis supports up to four internal SATA drives (2 OTB' storage maximum) or three SAS drives      Removable Storage    Optional: DVD-/RW, CD-RW/DVD Combo; CD-RW, DVD-ROM'; CD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB <sup>6</sup> Hard drive controller    Int. SATA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5//R controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom <sup>®</sup> 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC3200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition digital controller      Optional Audio    Sound Blaster <sup>®</sup> X-Fi <sup>®</sup> XtremeMusic (D) <sup>®</sup> with Doby <sup>®</sup> Digital 5.1      Optional Modem    Dellower orientation (HXWD) 17.6 <sup>®</sup> x 6.8 <sup>®</sup> x 18.4 <sup>°</sup> ; 44.7 cm x 17.1 cm x 46.8 cm      Stots & Bays    Internal - Two 3.5 <sup>®</sup> HDD bays; External - Two 5.2 <sup>°</sup> optical bays, one 3.5 <sup>°</sup> flex bay with an additional 3.5 <sup>°</sup> bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mb2 slots      Standard I/O ports    Eight USB 2.0 two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply		
Removable Storage      Optional: DVD+/-RW*; CD-RW/DVD Combo; CD-RW, DVD-ROM*; CD-ROM; USB media card reader; USB Floppy Drive; Dell USB Memory Keys up to 512MB*        Hard drive controller      Int: SATA 3.06b/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1        Network controller      Integrated Broadcom* 5754 Gigabit Ethernet* controller with Remote Wake Up and PXE support        Audio controller      Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC3200 High Definition Audio CODEC and Intell (LH7R AC37) High Definition digital controller        Optional Modem      Dell 55K** V.32 Data/Fax PCI modem        CHASSIS      Dual-orientation desktop        Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6* x 6.8* x 18.4*; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5* HDD bays; External - Two 5.25* optical bays, one 3.5* flex bay with an additional 3.5* bay in mini-tower; One PCle x18 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mbz slots        Standard I/O ports      Eight USB 2.0* two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel;        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (PC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust		
Drive; Dell USB Memory Keys up to 512MB <sup>6</sup> Hard drive controller    Int. SATA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom <sup>6</sup> 5754 Gigabit Ethernet <sup>e</sup> controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel (CH7R AC37/ High Definition Gigital controller      Optional Audio    Sound Blaster <sup>a</sup> X-Fi <sup>*</sup> XtremeMusic (D) <sup>is</sup> with Dolby <sup>®</sup> Digital 5.1      Optional Modem    Dell 56K <sup>*</sup> v.92 Data/Fax PCI modem      CHASSIS    Dual-orientation desktop      Dual-orientation desktop    Mini-tower orientation: (HxWxD) 17.6 <sup>*</sup> x 6.8 <sup>*</sup> x 18.4 <sup>*</sup> ; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5 <sup>*</sup> HDD bays; External - Two 5.25 <sup>*</sup> optical bays, one 3.5 <sup>*</sup> fike bay with an additional 3.5 <sup>*</sup> bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mhz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Mircorphone and headphone connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Tusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock	Removable Storage	
Hard drive controller    Int. SATA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0, 1      Network controller    Integrated Broadcom® 5754 Gigabit Ethernet® controller with Remote Wake Up and PXE support      Audio controller    Integrated High Definition Audio (Rev 10. Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition digital controller      Optional Audio    Sound Blaster® X-Fi® XtremeMusic (D)® with Dolby® Digital 5.1      Optional Modern    Dell 56K <sup>11</sup> v.92 Data/Fax PCI modem      CHASSIS    Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6° x 6.8° x 18.4°; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5° HDD bays; External - Two 5.25° optical bays, one 3.5° flex bay with an additional 3.5° bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mbz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel]      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setury/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UlttraSharp® widescreen and standard flat panel display	nonovablo otorago	
Network controller      Integrated Broadcom <sup>6</sup> 5754 Gigabit Ethernet <sup>e</sup> controller with Remote Wake Up and PXE support        Audio controller      Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition digital controller        Optional Audio      Sound Blaster <sup>®</sup> X-Fi <sup>®</sup> XtremeMusic (D) <sup>I®</sup> with Dobly <sup>®</sup> Digital 5.1        Optional Modem      Dell 56K <sup>™</sup> v.92 Data/Fax PCI modem        CHASSIS      Mini-tower orientation: (HxWxD) 17.6 <sup>™</sup> x 6.8 <sup>™</sup> x 18.4 <sup>™</sup> ; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5 <sup>™</sup> HDD bays; External - Two 5.25 <sup>™</sup> optical bays, one 3.5 <sup>™</sup> flex bay with an additional 3.5 <sup>™</sup> bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5 vPCl 32bit/33Mbz slots        Standard I/O ports      Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (PFC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock        EXTERNAL PERIPHERALS      Monitors      Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard fla	Hard drive controller	Int. SATA 3.0Gb/s controller with support for RAID 0, 1, 5 and 10; optional SAS 5/iR controller card for SAS RAID 0,
Audio controller    Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ICH7R AC97/ High Definition digital controller      Optional Audio    Sound Blaster® X-Fi* XtremeMusic (D)® with Dolby® Digital 5.1      Optional Modem    Dell 56K" v.92 Data/Fax PCI modem      CHASSIS    Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mhz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394 available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Nonitors      Monitors    Performance flat panel displays, Dell UltraSharp® widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available		1
Intel ICH7R A097/ High Definition digital controller      Optional Audio    Sound Blaster® X-Fi" XtremeMusic (D) <sup>16</sup> with Dolby® Digital 5.1      Optional Modem    Dell 56K" v.92 Data/Fax PCI modem      CHASSIS    Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm      Slots & Bays    Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower, One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mbz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Monitors      Monitors    Performance flat panel displays, Dell UltraSharp <sup>w</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll <td>Network controller</td> <td>Integrated Broadcom® 5754 Gigabit Ethernet® controller with Remote Wake Up and PXE support</td>	Network controller	Integrated Broadcom® 5754 Gigabit Ethernet® controller with Remote Wake Up and PXE support
Optional Audio      Sound Blaster® X-FI® XtremeMusic (D)® with Dolby® Digital 5.1        Optional Modem      Dell 56K" v.92 Data/Fax PCI modem        CHASSIS      Dual-orientation desktop      Mini-tower orientation: (HXWXD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower, One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mhz slots        Standard I/O ports      Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (FPC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock        EXTERNAL PERIPHERALS      Monitors      Performance flat panel displays, Dell UltraSharp® widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available        Keyboard      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse        Mouse      USB: Dell two-button mechanical with scroll, Dell two-butt	Audio controller	Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and
Optional Modem      Dell 56K'' v.92 Data/Fax PCI modem        CHASSIS      Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower; One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mhz slots        Standard I/O ports      Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (PFC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock        EXTERNAL PERIPHERALS      Monitors      Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available        Keyboard      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetonth Keyboard and Mouse        Mouse      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetonth Keyboard and Mouse        Mouse      USB: Dell two-button mechanical with scroll, Dell two-button optical with		Intel ICH7R AC97/ High Definition digital controller
CHASSIS        Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower; One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mhz slots        Standard I/O ports      Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (PFC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock        EXTERNAL PERIPHERALS      Monitors        Monitors      Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available        Keyboard      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetoth Keyboard and Mouse        Mouse      USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll        Optional Speakers      Internal chassis speaker; Dell two and three piece stereo system; Dell soun	Optional Audio	Sound Blaster® X-Fi™ XtremeMusic (D)™ with Dolby® Digital 5.1
Dual-orientation desktop      Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm        Slots & Bays      Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower; One PCle x16 graphics slot, One PC-e x8 slot wired as x4, One PCle x1 slot; Three 5v PCl 32bit/33Mhz slots        Standard I/O ports      Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out        Optional I/O      IEEE 1394a available with add-in card; connector located on front panel        Power Supply      375 watts Power Factor Correcting (PFC) power supply        Security      Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BlOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock        EXTERNAL PERIPHERALS      Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available        Keyboard      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetoth Keyboard and Mouse        Mouse      USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll        Optional Speakers      Internal chassis speaker; Dell two and three piece stere system; Dell Sound bar available for flat panel displays        ENVIRONMENTAL & REGULATORY	Optional Modem	Dell 56K <sup>11</sup> v.92 Data/Fax PCI modem
Slots & Bays    Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in mini-tower; One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mhz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Monitors      Monitors    Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stere system; Dell Sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO,	CHASSIS	
mini-tower; One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mlz slots      Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetonth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stere system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>3</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT	Dual-orientation desktop	Mini-tower orientation: (HxWxD) 17.6" x 6.8" x 18.4"; 44.7 cm x 17.1 cm x 46.8 cm
slots    Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Monitors      Monitors    Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell DuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stere system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Co	Slots & Bays	Internal - Two 3.5" HDD bays; External - Two 5.25" optical bays, one 3.5" flex bay with an additional 3.5" bay in
Standard I/O ports    Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45; Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards      Standards    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>19</sup> /Lead Free <sup>13</sup>		mini-tower; One PCIe x16 graphics slot, One PC-e x8 slot wired as x4, One PCIe x1 slot; Three 5v PCI 32bit/33Mhz
Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out      Optional I/O    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell Wo-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    WEE      Lead Free    Environmentally conscious design is RoHS Compliant"?/Lead Free <sup>13</sup> SERVICE & SUPPORT    Entrementally conscious design is RoHS Compliant"?/Lead Free <sup>13</sup>		slots
Optional I/0    IEEE 1394a available with add-in card; connector located on front panel      Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Monitors      Monitors    Performance flat panel displays, Dell UltraSharp <sup>™</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetonth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll. Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>19</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT    Environmentally conscious design is RoHS Compliant <sup>19</sup> /Lead Free <sup>13</sup>	Standard I/O ports	Eight USB 2.0: two front, five back, one internal; One serial (2nd serial optional); One parallel; Two PS/2; One RJ-45;
Power Supply    375 watts Power Factor Correcting (PFC) power supply      Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UltraSharp <sup>w</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell Soud bar available for flat panel displays      Standards    TC099, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup>		Microphone and headphone connector on front panel; Two rear connectors for line-in and line-out
Security    Trusted Platform Module 1.2; WAVE Embassy Trust Suite; Setup/BIOS Password; I/O Interface Security; Chassis intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS    Performance flat panel displays, Dell UltraSharp <sup>®</sup> widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      EtwiRonmental & REGULATORY    Standards    TC099, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT	Optional I/O	IEEE 1394a available with add-in card; connector located on front panel
intrusion switch; Biometric Fingerprint Reader; Kensington lock      EXTERNAL PERIPHERALS      Monitors    Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards      YeEE    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT    Fereita	Power Supply	
EXTERNAL PERIPHERALS      Monitors    Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards      TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT    Free	Security	
Monitors      Performance flat panel displays, Dell UltraSharp" widescreen and standard flat panel displays from 17" viewable to 30" viewable; Analog flat panel displays and CRT monitors also available        Keyboard      USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse        Mouse      USB: Dell Two-button mechanical with scroll, Dell two-button optical with scroll        Optional Speakers      Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays        ENVIRONMENTAL & REGULATORY      TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEE        Lead Free      Environmentally conscious design is RoHS Compliant"?/Lead Free <sup>13</sup> SERVICE & SUPPORT      Standards		
30" viewable; Analog flat panel displays and CRT monitors also available      Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant*7/Lead Free¹3      SERVICE & SUPPORT    Standards		
Keyboard    USB: Dell QuietKey, Enhanced Multimedia, Smartcard Reader keyboard; Bluetooth Keyboard and Mouse      Mouse    USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll      Optional Speakers    Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays      ENVIRONMENTAL & REGULATORY    Standards      TC099, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT    Fereinsentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup>	Monitors	
Mouse  USB: Dell two-button mechanical with scroll, Dell two-button optical with scroll    Optional Speakers  Internal chassis speaker; Dell two and three piece stereo system; Dell sound bar available for flat panel displays    ENVIRONMENTAL & REGULATORY    Standards  TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE    Lead Free  Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT  Free		• • • •
Optional Speakers      Internal chassis speaker, Dell two and three piece stereo system, Dell sound bar available for flat panel displays        ENVIRONMENTAL & REGULATORY        Standards      TCO99, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE        Lead Free      Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT      Free	,	
ENVIRONMENTAL & REGULATORY      Standards    TC099, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE      Lead Free    Environmentally conscious design is RoHS Compliant <sup>13</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT    Free		
Standards  TC099, Blue Angel, Green PC, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABS, SASO, TCO, TUV, UL, VCCI, WEEE    Lead Free  Environmentally conscious design is RoHS Compliant <sup>12</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT  Free		
WEEE        Lead Free      Environmentally conscious design is RoHS Compliant'3/Lead Free13        SERVICE & SUPPORT      Free13		
Lead Free      Environmentally conscious design is RoHS Compliant <sup>12</sup> /Lead Free <sup>13</sup> SERVICE & SUPPORT      Environmentally conscious design is RoHS Compliant <sup>12</sup> /Lead Free <sup>13</sup>	Standards	• • • • • • • • • • • • • • •
SERVICE & SUPPORT		
		Environmentally conscious design is RoHS Compliant <sup>12</sup> /Lead Free <sup>13</sup>
Base 3-Year Limited Warranty (Next Business Day onsite service <sup>14</sup> )		
	Base	3-Year Limited Warranty (Next Business Day onsite service <sup>14</sup> )

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 Up to 54% faster compute performance: Gains based on the SPECint\_rate2000 single threaded benchmark test performed by Dell Labs in July 2006 on the Dell Precision 390 with Intel Core 2 Due E6400 216/2162, E6600 2 4GHz and Extreme X6800 2.33GHz processors, all with 1066MHz FSB All systems were configured with 4GB DDR2 533 NECC memory, NVIDIA Quadro® FX 4500 512MB OpenGL graphics, 80GB SATA 7200RPM HDD and Microsoft® Windows® XP Pro SP2. Actual performance will vary based on configuration, usage and manufacturing
- Provide UpEntic graphics, Buble SATA / ZUUHM HDU and Microsoftee Windowse XP Pro SP2. Actual performance will vary based on comiguration, usage and manufacturing variability.
  For hard drives, one GB means 1 billon bytes and one TB equals one trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
  The total amount of usable memory available will be less, depending on the actual system configuration. To utilize more than 4GB of memory requires a 64-bit OS.
  Based on currently available information from Microsoft. Requirements subject to change. All Dell Systems meet Microsofts minimum requirements to run Windows Vista, provided they have a minimum of 512MB RAM. Systems that meet only minimum requirements will not have the full benefit of all Windows Vista features. Please visit dell.com/vista for more
  - , information

- information. Dual-channel memory requires two each of the same capacity memory DIMMs. Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility. DVD-ROM drives may have write-capable hardware that has been disabled via firmware modifications. For writeable storage devices, MB means 1 million bytes; total accessible capacity varies depending on operating environment. This term 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.
- 10 Certain system components may differ from the retail version.

- 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. For Dell projectors, bulbs have a 90-day limited warranty.

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