

| MANUFACTURER | Apple | Dell | HP | Lenovo |
|-----------------------------------|---|--|---|---|
| Classification (Same as Tab Name) | Standard Desktop | Standard Desktop | Standard Desktop | Standard Desktop |
| MODEL NUMBER | MC015LL/A | Optiplex 960 Desktop | dc7900 SFF w/ 19" Flat Panel LCD | 7269D7U |
| | | | Part # FS488AW#ABA (PC) \$819.46 and GS918AA#ABA (19" LCD) \$229.03 | |
| | | | DC7900 SFF | ThinkCentre M58e SFF |
| QUOTATION NUMBER | 494770 | 36974209 | 83272544 | 492270 |
| Quote Valid Until | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 | October-November 2009 |
| BASE UNIT PRICE | \$1,158.08 | \$983.11 | \$1,048.49 | \$881.11 |
| SPECIFICATIONS | | | | |
| Processor (Intel) | 2.0GHz Intel Core 2 Duo | OptiPlex 960 Small Form Factor,Core 2 Duo E8400/3.0GHz | Intel Core 2 Duo E8500 Processor (3.16-GHz, 4 MB L2 cache, 1333-MHz FSB) | Intel® Core2 Duo E7500 2.93GHz (2 Cores,3MB Cache) |
| Chipset | | | Intel® Q35 Express chipset | Intel G41Express Chipset |
| Memory | 2GB 1066 MHz DDR3 SDRAM 2x1GB | 2.0GB,Non-ECC,800MHz DDR 2x1GB,OptiPlex 760 | 2GB PC2-6400 (DDR2-800)2x1GB | 2GB (4GB Max) PC2-6400 800MHz DDR2 |
| Memory Expansion Slots/Available | 2/ 0 Available | Four DIMM Slots (2 Available) | 4 Slots / 2 Available | two 240-pin DIMM sockets, one available |
| Hard Drive Storage | 160 GB Serial ATA Drive @ 7200 rpm | 160GB SATA 3.0Gb/s and 8MB Data Burst Cache,Dell OptiPlex 760 | 250GB SATA NCQ SMART IV | 320GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts |
| Optical Devices | SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) | 8X Slimline DVD+/-RW Roxio Creator™ CyberlinkPowerDVD™ | SATA 16X SuperMulti LightScribe | DVD Recordable (DVDRW) with Dual Layer |
| Removable Media | N/A | Optional | None | No Floppy Disk Drive, No Media Card Reader |
| Sound Card - Integrated | Internal 24-watt digital amplifier | Integrated AC97 Audio | ADI 4-channel ADI 1884 codec | HD Audio, Analog Devices AD1882 codec |
| Video Card | NVIDIA GeForce 9400M with 128 B DDR3 SDRAM with shared main memory | Digital Video Adapter Card Low Profile,Dell OptiPlex 960 | integrated Graphics Media Accelerator 3100 | Intel GMA X4500 - 512MB/1GB Shared one analog VGA connector, (Optional DVI ADD2 Adapter Avail.) |
| Network Interface - Integrated | Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector) | Integrated Intel 10/100/1000 Gigabit Network Card | integrated Intel 82566DM Gigabit Network Connection | Gigabit ethernet on planar, Marvell 88E8057 |
| Slots | N/A | 1 low profile PCI, one low profile PCIe x16 graphics, 1 VGA, 10 USB 2.0 (2 front, 6 rear, 2 internal), 1 RJ-45, PS2 Optional via PCI add-in card,. | (3) full-height PCI slots, (2) full-height PCI Express x1 slots, (1) full-height PCI Express x16 (ADD2/SDVO) slot | 1 PCI, 1 PCI Express x16 |
| I/O Ports | One FireWire 800; 7 watts each Total of six USB 2.0 ports: four ports on computer, two ports on keyboard; Headphone/optical digital audio output (minijack) Audio line in/optical digital audio input (minijack) Built-in microphone; Built-in iSight camera; MiniDisplay Port with support for DVI, dual link DVI, and VGA video connections via adapter (sold separately) | 1 Display Port, 1 Serial 1 ESATA 2 ine In, 2 Line Out | Rear I/O: (6) USB 2.0, 1 standard serial port, (1) optional serial port, (1) parallel port, (2) PS/2, (1) RJ-45, (1) VGA, (1) audio in, (1) audio out. Front I/O: (2) USB 2.0, headphone and microphone | Front: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo 3.5mm Back: Four USB 2.0 serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort) |
| Drive Bays | 1 | 1 internal 3.5", 1 external 3.5", 1 external 5.25" | (3) 5.25" external bays and (2) 3.5" internal bays | 1x 5.25" (Optical), 1x 3.5" (HDD), 1x 3.5" (for opt. Card Reader) |
| Chasis | N/A | Small Form Factor | Small Form Factor (SFF) 3.95 x 13.3 x 14.9 in (100.3 x 337.8 x 378.5) | Small Form Factor -- 10L Business Black |
| Power Supply | Max continuous power: 200W (20-inch models) | 235W Standard Power Supply | 240-watt high efficiency 80 PLUS® Active Power Factor Correction (PFC) power supply | 280 watts with variable speed fan, autosensing supply |
| Speakers - Optional | Built-in stereo speakers | Internal | Internal | One internal speaker for business audio |
| Keyboard | Apple Keyboard (without Numeric Pad) | USB Keyboard | PS/2 Standard Keyboard US | Preferred Pro USB Keyboard, 104-key, black |
| Mouse - Wheel or Scroll | Mighty Mouse | Dell USB Optical Mouse | HP PS/2 2-Button Optical Scroll Mouse | Optical Wheel Mouse, 400 dpi, black |
| Monitor | Built-in 20-inch (viewable), glossy widescreen TFT active-matrix liquid crystal display 20-inch: 1680 by 1050 pixels | Dell UltraSharp 1908FP Flat Panel with Height Adjustable Stand,19.0 Inch | EM887AA#ABA - HP COMPAQ LE1911 LCD Monitor | L197W - 19" LCD Monitor (EPEAT GOLD) 4434HE1 |
| Operating System | MAC OS 10.5 | Windows XP Pro SP3 with Vista Business License | Windows Vista Business 32 bit US - XP Pro System Recovery CD Kit | Windows XP Pro - downgraded from VISTA Bus. |
| Productivity Software | MS Office 2008 MAC | N/A | N/A | N/A |
| Warranty | 3 year Onsite service is not available in all locations. | 3 year next business day on-site ProSupport for IT | 3 Year Next Business Day On-Site | 3 year on-site NBD |

| Delivery | Incl to Keele and Glendon Campus | Incl to Keele and Glendon Campus | Free delivery | Incl to Keele and Glendon Campus |
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| OPTIONS | | | | |
| Processor | | | | |
| Option - One | \$ 244 MB950LL/A 3.06GHZ, 4GB RAM, 500GB HD, Nvidia 256mb memory (shared), 21.5" LED Backlight glossy widescreen TFT, 1 FW800 port, 4 USB ports, SD Card Slot, Wireless keyboard, Magic mouse | Intel® Core™ 2 Duo Processor E8500 (3.16GHZ, 6M,TV, 1333MHz FSB) \$20 | N/A | Core2Duo E8400 3.0GHz CPU, 6MB Cache, 2GB RAM (8GB Max), more RAM slots & DDR3 Memory, 250GB HDD, better Chipset (Q45), DisplayPort incl., Intel vPro, SecurityChip... \$199.00 |
| Option - Two | N/A | Intel® Core™ 2 Duo Processor E8600 (3.16GHZ, 6M,TV, 1333MHz FSB) \$140 | N/A | N/A |
| Monitor Upgrades | | | | |
| Option - One | \$694 - MB952LL/A - 3.06GHZ 27" LED with 2560 by 1200 pixels , 4GB Ram, 1TB Serial ATA 7200 RPM, ATI Radeon 4670 256MB, | Dell 20 inch UltraSharp™ 2009W Widescreen, Adjustable Stand, VGA/DVI \$60 | | L1951P 19"W LCD (EPEAT GOLD) \$17.00 |
| Option - Two | N/A | Dell P2210T, 22 inch VIS Professional Widescreen Flat Panel \$60 | KD911A4#ABA - HP LP2475w 24" Widescreen Digital/Analog add \$426.03 | L2060w 20"W LCD (EPEAT GOLD) \$189.00 |
| Option - Three | N/A | Dell 24 inch UltraSharp™ 2408FPW Widescreen, Adjustable Stand, VGA/DVI \$500 | EZ320A4#ABA - LP3065 30" Wide Digital/Analog add \$1137.03 | L2250p 22"W (EPEAT GOLD) \$69.00 |
| Option - Four | N/A | Second UltraSharp™ 190S Flat Panel \$237.03 (includes Eco fee) | N/A | L2440p 24" W LCD (EPEAT GOLD) \$203.30 |
| Option - Five | N/A | Second UltraSharp™ 2009W Widescreen \$291.03 (includes Eco fee) | N/A | |
| Option - Six | N/A | Second Dell P2210T, 22" VIS Prof. Widescreen \$291.03 (includes Eco Fees) | N/A | N/A |
| Option - Seven | N/A | Second UltraSharp™ U2410 Widescreen \$687.03 (includes Eco fee) | N/A | N/A |
| Memory Upgrades | | | | |
| Option - One | 4096MB PC667 DDR2 SDRAM (2DIMM) \$160.00 | 3.0GB DDR2 Non-ECC SDRAM, 800MHz, (2DIMM) \$50 | AH058AA - 1GB for a total of 3GB - ADD \$34 | Add 2GB Memory (DDR2-PC2-6400) \$75.00 Not applicable to DD3 models |
| Option - Two | N/A | 4.0GB DDR2 Non-ECC SDRAM, 800MHz, (4DIMM) \$90 | AH058AA qty 2 - 2GB (2x1GB) for a total of 4GB - ADD \$63.36 | |
| Option - Three | N/A | 4.0GB DDR2 Non-ECC SDRAM, 800MHz, (2DIMM) \$90 | AH060AA - 2GB (1x2GB) for a total of 4GB - ADD \$70.15 | N/A |
| Sound Upgrades | | | | |
| Option - One | N/A | Dell™ AX210 Speakers, Black \$10 | KK912AA - Thin USB Powered Speakers - ADD\$18 | Logitech X-140 \$33 |
| Option - Two | N/A | Dell AX510 Sound Bar for all UltraSharp Flat Panel Displays (Black) \$20 | | Altec expressionist CLASSIC \$79 |
| Video Upgrades | | | | |
| Option - One | N/A | 256MB ATI RADEON HD 3450 (2 DVI and 2 VGA /1 TV-out) \$70 | No Transistion | (Only LOW PROFILE Video Cards work in SFF) |
| Option - Two | N/A | 256MB ATI RADEON HD 3470 (2 Display Port/ DVI) \$80 | No Transistion | Display Port to VGA dongle \$32 - for M58/M58p (not M58e) |
| Option - Three | N/A | N/A | KD060AA - ATI Radeon HD 2400 XT PCIe x16 Card - ADD \$123 | Display port to DVI-D dongle \$20 - for M58/M58p (not M58e) |
| Option - Four | N/A | N/A | N/A | ADD2 DVI-D MONITOR ADAPTER (HDCP) \$34.00 - for M58e only |
| Option - Five | N/A | N/A | N/A | 256MB ATI Radeon HD3470 (DP) \$90 256MB ATI Radeon HD2400XT (Dual VGA/DVI, TV-out) \$95 |
| Hard Drive Upgrades | | | | |
| Option - One | N/A | 250GB SATA, 7200 RPM Hard Drive with Data Burst Cache™ \$10 | PY277AA Add 160GB SATA Hard Drive for a total of 320GB add \$76.32 | 250GB SATA 3.0Gb/s Disk (7200 rpm) \$75 |
| Option - Two | N/A | 320GB SATA, 7200 RPM Hard Drive with Data Burst Cache™ \$20 | PY278AA Add 250GB SATA Hard Drive for a total of 410GB add \$117.32 | 500GB SATA 3.0Gb/s Disk (7200 rpm) \$90 |
| Option - Three | N/A | N/A | | 750GB SATA 3.0Gb/s Disk (7200 rpm) \$145 1TB SATA 3.0Gb/s Disk (7200 rpm) \$190 |
| 1st Bay Optical Drive Upgrades | | | | |
| Option - One | N/A | Upgrade to 19 in 1 media card reader \$20 | Included: 48X/32X SATA CD-RW/DVD-ROM Combo Drive | |
| Option - Two | N/A | N/A | GF343AA - 16X SATA DVD+/-RW (DL/DF) Super Multi LightScribe Drive - ADD \$124.32 | |
| Option - Three | N/A | N/A | N/A | |
| Communication Upgrades | | | | |

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| Option - One | Wireless card - included | V.92 56K Modem \$30 | N/A | N/A |
| Option - Two | N/A | Intel Wireless Half Mini 5300 \$100 | N/A | N/A |
| Other Upgrades | | | | |
| Option - one | Bluetooth Keyboard - \$71.32 | Dell USB Enhanced Multimedia Pro Keyboard \$20 | | Lenovo USB Multimedia Headset \$29 |
| Option - Two | Magic Mouse - \$ 69.32 | Dell USB 6-button Laser Mouse \$14 | 3 yr 4hr 9x5 on site support U4864E \$139.00 | Lenovo Wireless Keyboard & Mouse \$72 |
| Option - Three | Apple Remote - \$ 19.00 | Additional 1 yr NBD on site warranty: \$89 | N/A | Lenovo Kensington Security Lock \$42 |
| Option - Four | Mini DisplayPort to DVI Adapter \$ 34 | N/A | N/A | N/A |
| Option Five | Mini DisplayPort to Dual-Link DVI Adapter \$ 110 | N/A | N/A | N/A |
| Option - Six | Mini DisplayPort to VGA Adapter \$ 34 | N/A | N/A | N/A |
| Option - Seven | Extended Keyboard \$ 59.32 | N/A | N/A | N/A |

| MANUFACTURER | Apple | Dell | HP | Lenovo |
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| | | | High End Desktop | |
| MODEL NUMBER | MS952LL/A | Optiplex 960 | DC7900 CMT w/ 20" Wide Flat Panel LCD | 7373E4u |
| | iMac | Optiplex 960 MiniTower | Config ID#07773008(PC) \$1072.23 and RD125AA#ABA (20" Wide LCD) \$262.03 | ThinkCentre M58p SFF |
| QUOTATION NUMBER | 492297 | 36960051 | 83272544 | 492269 |
| Quote Valid Until | Feb - Mar, 2010 | Feb - Mar 2010 | Feb - March 2010 | Feb - March 2010 |
| BASE UNIT PRICE | \$1,852.08 | \$1,218.11 | \$1,334.26 | \$1,133.11 |
| SPECIFICATIONS | | | | |
| Processor (Intel) | 3.06GHz Intel Core 2 Duo | Intel® Core™ 2 Quad Processor Q9400 (2.66GHz, 6M, 1333MHz FSB) | Intel Core 2 Quad Q9400 Processor | Intel® Core™ 2 Quad Q8400 2.66GHz (4MB Cache) |
| Chipset | | | Intel® Q45 Express chipset | Intel G45 Express chipset |
| Memory | 4 GB Ram | 4.0GB, Non-ECC, 800MHz DDR 4x1GB, | 4 GB PC2-6400 (DDR2-800)2x2GB Memory | 4GB (8GB Max) PC3-8500 1066MHz DDR3 |
| Memory Expansion Slots/Available | 2/ 0 Available | Four DIMM Slots (2 Available) | 4 Slots / 2 Available | four 240-pin DIMM sockets, 2 available |
| Hard Drive Storage | 1 TB Serial ATA Drive 7200 RPM | 250GB SATA 3.0Gb/s and 8MB Data Burst Cache | 250GB SATA 3.5 1st Hard Drive | 250GB, SATA 3.0Gb/s 7200 rpm, vibration dampening mounts |
| Optical Devices | SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) | 16X DVD+/-RW SATA,Black,Roxio | SATA 16X SuperMulti LightScribe | DVD Recordable (DVDRW) with dual layer |
| Removable Media | N/A | Optional | None | No Floppy Disk Drive, No Card Reader |
| Sound Card - Integrated | Internal 17-watt digital amplifier | Integrated AC97 Audio | ADI 4-channel ADI 1884 codec | HD Audio, Realtek ALC662 codec |
| Video Card | ATI Radeon 4670 graphics processor with 256MB GDDR3 Memory | 256MB ATI Radeon 3450,DVI/VGA (DVI or VGA, TV-out), full height | integrated Graphics Media Accelerator 3100 | Intel Graphics Media Accelerator 4500 one analog VGA connector, one DisplayPort connector |
| Network Interface - Integrated | Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector) | Integrated Intel 10/100/1000 Gigabit Network Card | integrated Intel 82566DM Gigabit Network Connection | Gigabit ethernet on planar, Marvell 88E8057 Wake on LAN® |
| Slots | N/A | N/A | (3) full-height PCI slots, (1) full-height PCI Express x1 slots, (2) full-height PCI Express x16 slots | 2x 32-bit PCI, 1x PCI Express x16, 1x PCI Express x1 |
| I/O Ports | One FireWire 800; 7 wats each Total of six USB 2.0 ports: four ports on computer, two ports on keyboard; Headphone/optical digital audio output (minijack) Audio line in/optical digital audio input (minijack) Built-in microphone; Built-in iSight camera; MiniDisplay Port with support for DVI, dual link DVI, and VGA video connections via adapter (sold separately) | Two full height PCI, one PCIe X16 full height graphics, one PCIe X1 full height1 Display Port, 1 Serial, 1 eSATA, 2 line in 2 line out1 VGA, 12 USB 2.0 (4 front, 6 rear, 2 internal), 1 RJ-45, PS2 | Rear I/O: (6) USB 2.0, 1 serial port, (2) PS/2, (1) RJ-45, (1) VGA, (1) audio in, (1) audio out. Front I/O: (2) USB 2.0, headphone and microphone | FRONT: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) BACK: Six USB 2.0, serial (9-pin), ethernet (RJ-45), monitor (VGA DB-15, DisplayPort), eSATA Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) |
| Drive Bays | 1 Bay / 0 Available | internal 3.5", 1 external 3.5", 1 external 5.25" | (1) 3.5" and (3) 5.25" external bays and (2) 3.5" internal bays | 2x 5.25" (Optical), 1x 3.5" (HDD), 1x 3.5" (for opt. Card Reader) |
| Chasis | N/A | MiniTower | dc7900 CMT chassis w/ 85% PSU Micro Tower CMT Chassie 3.95 x 13.3 x 14.9 in (100.3 x 337.8 x 378.5) | Tower -- Business Black |
| Power Supply | Max continuous power: 280W (24-inch models) | 305W | 365-watt standard efficiency power supply, Active Power Factor Correction (PFC) | 280W w. variable speed fan, autosensing, 2 diagnostic LEDs |
| Speakers - Optional | Built-in stereo speakers | Internal | Internal | One internal speaker for business audio |
| Keyboard | Apple Keyboard (without Numeric Pad) | USB Keyboard | PS/2 Standard Keyboard US | Preferred Pro USB Keyboard |
| Mouse - Wheel or Scroll | Mighty Mouse | Dell USB Optical Mouse | HP PS/2 2-Button Optical Scroll Mouse | Optical Wheel Mouse, 400 dpi, black |
| Monitor | Built-in 27-inch (viewable), LED glossy widescreen TFT active-matrix liquid crystal display; 2560 by 1440 pixels (16:9) | Dell Ultrasharp 2009W Flat Panel with Height, Adjustable Stand 20 inch. | RD125AA#ABA - L2045 20" Analog LCD | L2060 W 20" LCD Monitor 2120HB1(EPEAT GOLD) |
| Operating System | MAC OS 10.6 | Windows XP Pro SP3 with Vista Business License | Windows Vista Custom Downgrade to XP Pro | MS Windows XP Professional with VISTA COA |
| Productivity Software | | | N/A | |
| Warranty | 3 year Onsite service is not available in all locations. | 3 year next business day on-site with ProSupport for IT | 3 Year Next Business Day On-Site | 3 year on-site NBD |
| Delivery | Incl to Keele and Glendon Campus | Incl to Keele and Glendon Campus | Free delivery | Incl to Keele and Glendon Campus |
| OPTIONS | | | | |
| Processor | | | | |
| Option - One | \$300 - MB953LL/A - iMac 2.66 GHz Intel Quad Core, ATI Radeon 4850 graphics processor with 512MB GDDR3 Memory | Intel®Core™ 2 Quad Processor Q9550 (2.83Hz, 12M, 1333MHz FSB) \$90 | N/A | N/A |

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| Option - Two | N/A | Intel® Core™ 2 Quad Processor Q9650 (3.0GHz, 12M, 1333MHz FSB) \$250 | N/A | N/A |
| Option - Three | N/A | N/A | N/A | N/A |
| Option - Four | N/A | N/A | N/A | N/A |
| Option - Five | N/A | N/A | N/A | N/A |
| Monitor Upgrades | | | | |
| Option - One | N/A | Dell P2210T 22" VIS Professional Widescreen \$0 | KD911A4#ABA - HP LP2475w 24" Widescreen Digital/Analog add \$393.03 | L1951P 19"W LCD (EPEAT GOLD) \$16.05 |
| Option - Two | N/A | Dell 24 inch UltraSharp™ 2408 FPW Widescreen, Adjustable Stand, VGA/DVI \$441 | EZ320A4#ABA - LP3065 30" Wide Digital/Analog - ADD \$1104.03 | L2250p 22" W LCD (EPEAT GOLD) \$69.55 |
| Option - Three | N/A | Second Dell P2210T 22" VIS Professional Widescreen \$291.03 (Includes Eco Fees) | N/A | L2440p 24" W LCD (EPEAT GOLD) \$203.30 |
| Option - Four | N/A | Second UltraSharp™ 2009W Widescreen \$291.03 (includes Eco fee) | N/A | N/A |
| Option - Five | N/A | Second UltraSharp™ 2410 Widescreen \$687.03 (includes Eco fee) | N/A | N/A |
| Memory Upgrades | | | | |
| Option - One | included in iMac Only | N/A | AH058AA - 1GB for a total of 3GB - ADD \$34 | Add 1 DIMM - 2GB PC3-8500 DDR3 UDIMM \$58.08 |
| Option - Two | N/A | N/A | AH058AA qty 2 - 2GB (2x1GB) for a total of 4GB - ADD \$63.36 | Add 2 DIMMs - 2GB PC3-8500 DDR3 UDIMM \$116.16 |
| Option - Three | N/A | N/A | AH060AA - 2GB (1x2GB) for a total of 4GB - ADD \$70.15 | N/A |
| Sound Upgrades | | | | |
| Option - One | N/A | Dell AX210 Speakers (Black) \$10 | KK912AA - Thin USB Powered Speakers - ADD\$18 | Logitech X-140 \$33 |
| Option - Two | N/A | Dell AX510 Sound Bar for all UltraSharp Flat Panel Displays (Black) \$20 | N/A | Altec expressionist CLASSIC \$79 |
| Video Upgrades | | | | |
| Option - One | N/A | 256MB ATI Radeon HD 3470 (2 Display Port/DVI) \$10 | KD060AA - ATI Radeon Hd 2400 XT PCIe x16 Card - ADD \$123.00 (only for 20" monitors) | (only LOW PROFILE Video Cards work in SFF) |
| Option - Two | N/A | 512MB ATI Radeon HD4670, Dual DVI/ plus single DVI/VGA adapter \$80 | N/A | Display Port to VGA dongle \$32 for M58/M58p (not M58e) |
| Option - Three | N/A | N/A | N/A | Display port to DVI-D dongle \$20 for M58/M58p (not M58e) |
| Option - Four | N/A | N/A | N/A | 256MB ATI Radeon HD3470 (DP) \$85 |
| Option - Five | N/A | N/A | N/A | 256MB ATI Radeon HD2400XT (Dual VGA/DVI, TV-out) \$95 |
| Hard Drive Upgrades | | | | |
| Option - One | N/A | 80GB SATA, 10,000 RPM 3.0Gb/s Hard Drive with Data Burst Cache™ \$60 | PY277AA Add 160GB SATA Hard Drive for a total of 320GB add \$76.32 | 250GB SATA 3.0Gb/s Disk (7200 rpm) \$75 |
| Option - Two | N/A | 160GB SATA, 10K RPM 3.0Gb/s Hard Drive 3.5 inch with Data Burst Cache \$120 | PY278AA Add 250GB SATA Hard Drive for a total of 410GB add \$117.32 | 500GB SATA 3.0Gb/s Disk (7200 rpm) \$90 |
| Option - Three | N/A | 320 GB 3.5" SATA 3.0Gb/s and 16MB DataBurst Cache \$100 | | 750GB SATA 3.0Gb/s Disk (7200 rpm) \$145 |
| Option - Four | N/A | 250GB SATA 3.0Gb/s and 8MB Data Burst Cache \$90 | N/A | 1TB SATA 3.0Gb/s Disk (7200 rpm) \$192.50 |
| Option - Five | N/A | 320 GB 3.5" SATA 3.0Gb/s and 16MB DataBurst Cache \$100 | N/A | N/A |
| Option - Six | N/A | 80GB, (s) 10K RPM 3.0Gb/s 2nd Hard Drive 3.5 inch w DataBurst Cache \$150 | N/A | N/A |
| Option - Seven | N/A | 160GB, (s) 10K RPM 3.0Gb/s 2nd Hard Drive 3.5 inch w DataBurst Cache \$210 | N/A | N/A |
| 1st Bay Optical Drive Upgrades | | | | |
| Option - One | N/A | 16XDVD+/-RW and 16X DVD, SATA, Roxio Digital Media \$40 | N/A | Lenovo DVD-RW Drive (SATA) - (PN 41N5620) \$55 |
| Option - Two | N/A | Upgrade to 19 in 1 media card reader \$20 | N/A | |
| Communication Upgrades | | | | |
| Option - One | Mac USB MODEM MA034Z/A \$53.99 | V.92 56K Modem \$30 | N/A | N/A |
| Option - Two | 4096MB 1066 DDR3 (2Dimm) Included iMac only | Intel Wireless Half Mini 5300 \$100 | N/A | N/A |
| Other Upgrades | | | | |
| Option - one | Bluetooth Keyboard included | Dell USB Multimedia Keyboard \$20 | N/A | Lenovo USB Multimedia Headset \$29 |
| Option - Two | Bluetooth Mouse included | Dell USB 6-Button Laser Mouse \$14 | N/A | Lenovo Wireless Keyboard & Mouse \$71 |
| Option - Three | Apple Remote \$19 | Additional 1 yr NBD on site warranty: \$89 | N/A | Lenovo USB Webcam - \$36 |

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| Option - Four | Extended Keyboard \$59.32 | RAID 1 (Two hard drives required same size and speed) \$0 | N/A | Kensington Lock (Security Cable w/ Key) \$42 |
| Option Five | Mini DisplayPort to DVI Adapter \$34 | RAID 0 (Two hard drives required same size and speed) \$0 | N/A | Lenovo USB 2.0 Portable 160GB Hard Drive \$70 |
| Option - Six | Mini DisplayPort to Dual-Link DVI Adapter \$110 | N/A | N/A | Lenovo USB 2.0 Portable 320GB Hard Drive \$120 |
| Option - Seven | Mini DisplayPort to VGA Adapter \$34 | N/A | N/A | 4 Years Onsite 9x5xNBD Warranty and Maintenance \$50 |
| Option - Eight | N/A | N/A | N/A | 5 Years Onsite 9x5xNBD Warranty and Maintenance \$100 |
| Option - Nine | N/A | N/A | N/A | |
| Option - Ten | N/A | N/A | N/A | N/A |

| MANUFACTURER | Apple | Dell | HP | Lenovo |
|----------------------------------|---|---|--|---|
| MODEL NUMBER | MC207LL/A | Latitude E6400 | 6930P | 2717ASU |
| | MacBook | | FM899UA#ABA | ThinkPad R500 |
| QUOTATION NUMBER | 492326 | 37026452 | 83272544 | 492267 |
| Quote Valid Until | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 | Feb - March 2009 |
| BASE UNIT PRICE | 1219.14 | 1151.14 | 1296.14 | 1007.14 |
| SPECIFICATIONS | | | | |
| Processor (Intel) | 2.26GHz Intel Core 2 Duo - White Polycarbonate Case | Intel®Core™ 2 DuoP8700 with VT (2.53GHz) 3M L2 Cache, 1066MHz FSB | Intel Core 2 Duo P8700 2.53-GHz, 800-MHz FSB, 2-MB L2 cache | Intel Core 2 Duo processor T6670 800MHz (2MB L2 cache) |
| Display | 13.3-inch (diagonal) glossy wTFT | 14.1 inch Wide Screen WXGA LED | 14.1-inch diagonal WXGA anti-glare (1280 x 800) | 15.4" WXGA (1280x800) anti-glare, CCFL backlight, 200 nits, 16:10 aspect, 300:1 contrast ratio <i>camera on top of screen, 1.3-megapixel, fixed focus</i> |
| Memory | 2GB 1066MHz DDR3 SDRAM - 2x1GB | 2.0GB, DDR2-800 SDRAM, 2 DIMM | 2GB 800Mhz DDR2 (1 DIMM) | 2GB (1 DIMMs), 8GB max, PC3-8500 1066 MHz DDR3, non-parity, dual-channel capable |
| Memory Expansion Slots/Available | 2 Slots / 0 Available | Two Dimm slots (0 available) | 2 SODIMM slots supporting dual channel memory | two 204-pin SO-DIMM sockets (0 Avail) |
| Hard Drive Storage | 250GB Serial ATA Drive @ 5400 rpm | 160GB Hard Drive 9.5MM 7200RPM | 250GB SATA Hard Drive (7200rpm) | 320GB (5400 rpm), SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™ |
| Optical Devices | SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) | 24X CDRW/DVD with Cyberlink Power DVD | MultiBay II DVD+/-RW LS Drive | DVD burner, SATA 1.5 Gb/s, Ultrabay Slim, removable |
| Removable Media - Optional | N/A | Optional | N/A | One ExpressCard/34 or ExpressCard/54 One Type I or Type II slot, CardBus 32-bit |
| Sound Card - Integrated | Built-in Speakers, built-in omnidirectional microphone, audio input/audio line in (minijack), audio output/headphone out (minijack) | AC97 (Soft Audio) / ICH3 - Stereo 20 Bit | High Definition Audio support w/24-bit DAC | HD Audio, Conexant 20561 codec / stereo speakers, 1 watt, volume up, down, mute buttons, digital microphone, microphone input jack, headphone jack |
| Video Card - Integrated | NVIDIA GeForce 9400M with 256MB DDR3 SDRAM with shared main memory | Intel Integrated Graphics Media Accelerator X4500HD | ATI Mobility Radeon™ HD 3450 graphics with 256 MB dedicated memory | Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, DisplayPort (supports single-link DVI-D via cable 45J7915) |
| Web Camera | | Optional | Intergrated Camera | |
| Network Interface - Integrated | Built-in 10/100/1000Base-T GigaBit Ethernet (RJ45 Connector), Built-in Airport Extreme Wi-Fi Networking (based on IEEE802.11n draft spec.) IEEE 802.11a/b/g/draft n compatible, Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) | Integrated 10/100/1000 Network Card - Dell Wireless 1397 802.11b/g Mini Card | Integrated Intel Gigabit Network Connection 10/100/1000 NIC)*56K V.92 modem**, Integrated 802.11 a/b/gm draft 2.0 or a/b/g wireless LAN module/Bluetooth 2.0 | · 56K V.92 modem w/voice · ThinkPad Wireless B/G/N · Bluetooth 2.0 w/ LED Indicator · Intel 82567LM Gigabit Ethernet - Integrated · WWAN Upgradeable |
| Pointing Device | Solid-state scrolling trackpad for precise cursor control, supports two-finger scrolling, tap, double-tap and drag capabilities | Standard Touchpad | Touchpad with scroll zone, two pick buttons; fingerprint reader | <ul style="list-style-type: none"> ●TrackPoint - pointing device, "Press-to-Select," Internet Scroll Bar, magnifying glass ●Touchpad - UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label ●ThinkLight - Illuminates the keyboard to improve visibility in low-light conditions |
| Slots | N/A | 5-in-1 card reader; PCMCIA or ExpressCard 54 | Type I/II PC Card slot, Secure Digital (SD) slot | 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) |
| I/O Ports | One FireWire 400 port (up to 400 Mbps), Two USB 2.0 ports (up to 480 Mbps), Built-in iSight camera, Mini DVI Port, Magsafe Power Port | IEEE - 1394, docking connector, USB 2.0 (x4), VGA, Display Port, RJ-11 (optional), RJ-45, eSATA, USB PowerShare, headphone/speaker out, mic | 1 x RJ-11 (Modem), 1xRJ-45 (NIC), 2 x USB 2.0, 1xS-Video TV Out, 1394a port, headphone out, microphone in, integrated microphone, 2 MP Camera w/Nightlight | Three USB 2.0 external monitor (VGA, DP), modem (RJ-11), ethernet (RJ-45), IEEE 1394 Firewire 400, Fingerprint Reader on Palm Rest, Swipe Sensor |
| Drive Bays | 1 Bay / 0 Available | 1 Modular Drive Bay | 2 | N/A |

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| Notebook Dimensions | Height: 2.74 cm (1.08 inches) | 0.93"(h) x 12.2"(w) x 8.5"(d) | 1.1 in (at front) x 13.0 in x 9.4 in 29 mm (at front) x 330 mm x 239 mm HxWxD | 14.1" x 10.2" x 1.4-1.5" |
| Notebook Weight | Width: 33.03 cm (13 inches), Depth: 23.17 cm (9.12 inches), Weight: 2.13 kg (4.7 pounds) | starts at 4.3 lbs | 2.3 kg | 6-cell: starting at 6.4 lb (2.93kg) |
| Power Supply | 60W Magsafe Adapter | 6-cell 56 WHr Smart Lithium Ion battery | External 90-watt Smart AC adapter, 6-foot (1.8-metre) power cord included. Total length including external AC adapter is 12 feet (3.66 metre). HP Fast Charge* *HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP F | 65-watt (Intel graphics) AC adapter |
| Speakers | N/A | Built-In | Integrated stereo speakers & microphone | Integrated Speakers & Mic |
| Operating System | MAC OS 10.6 | Windows XP Pro SP3 with Vista Business License | Genuine Windows Vista Business/XP Downgrade | Genuine Windows Vista Business |
| Productivity Software | n/a | N/A | N/A | MS Windows XP Professional with VISTA COA |
| Warranty | 3 Year Depot Warranty | 3-Yr Next Business Day On-Site ProSupport IT w/ Complete Care | 3 Yrs parts and labour | 3 Year on-site warranty NBD |
| Delivery | Incl to Keele and Glendon Campus | Incl to Keele or Glendon Campus | Free delivery | Incl to Keele and Glendon Campus |
| OPTIONS | | | | |
| Processor Upgrades | | | | |
| Option - One | \$200 - MB990LL/A - 2.26 GHz Intel Core 2 Duo - Precision Aluminium Unibody Enclosure, 160GB HD, NVIDIA GeForce 9400M graphics, 1066MHz Frontside Memory Bus, Mini DisplayPort output port with support for DVI, VGA, and dual-link DVI (requires adapters, sold separately), combined optical digital audio input/audio line in, combined optical digital audio output/headphone out, Multi-Touch trackpad for precise cursor control, supports two-finger scrolling, pinch, rotate, swipe, three- finger swipe, four-finger swipe, double-tap, and drag capabilities, 1 - Firewire 800, SD slot | Intel® Core™ 2 Duo P9700 (2.8GHz, 6M L2 Cache, 1066Mhz FSB \$200 | N/A | Core2Duo P8700 2.53GHz CPU + 3MB Cache, 2GB RAM, 250GB HDD, Intel 5100AGN Wifi, Intel Centrino 2 Technology \$130 |
| Option - Two | \$500 - MB991LL/A - 2.53Ghz Intel Core 2 Duo - Precision Aluminium Unibody Enclosure, 250GB HD, 4 GB Ram All other upgrades as above. | Intel® Core™ 2 Duo T9900 (3.06GHz) 6M L2 Cache, 1066MHz FSBI \$390 | N/A | Same CPU, 250GB HDD, 2GB RAM, XP Pro Preload w/ Vista COA, only 1YR Warranty (needs upgrading) \$165 |
| Memory Upgrades | | | | |
| Option - One | N/A | 2.0GB, DDR2-800 SDRAM, 1 DIMMS \$0 | KT292AA - HP 1 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$41 | Add 2GB Module (4GB Total) - \$59 |
| Option - Two | N/A | 4.0GB, DDR2-800 SDRAM, 2 DIMMS \$100 | KT293AA - HP 2 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$78 | Add 4GB Module (6GB Total) \$429 |
| Hard Drive Upgrades | | | | |
| Option - One | \$160.00 | 64GB Encrypted Mobility Solid State Drive \$170 | N/A | TP SATA 320GB 5400RPM HDD \$72 |
| Option - Two | N/A | 128GB Encrypted Mobility Solid State Drive \$390 | N/A | 250GB 7200 RPM FDE SER ATA HDR \$98 |
| Option - Three | N/A | 250GB Hard Drive, 7200RPM with Free Fall Sensor \$50 | N/A | 320GB 7200 RPM SERIAL ATA HDR \$105 |
| | | | | TP 500GB 5400RPM SATA HDD \$125 |
| | | | | TP 128GB SOLID STATE DRIVE \$385 |
| | | | | TP 250GB FDE SOLIDSTATEDRIVE \$715 |
| Optical Drive Upgrades | | | | |
| Option - One | N/A | 8XDVD+/-RW w/Roxio Digital Media™ and Cyberlink Power DVD™ \$61 | Included: DVD+/-RW SuperMulti DL LightScribe Drive | TP DVD Burner Ultrabay (SATA) \$72 |
| Option - Two | N/A | Blu-ray Disc w Roxio and Cyberlink PDVD (Windows Vista Only) \$561 | N/A | |
| Option - Three | N/A | N/A | N/A | |
| Floppy Drive Upgrades | | | | |

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|--------------------------------|--|--|--|---|
| Option - One | N/A | N/A | N/A | USB Portable Disk Drive \$55 |
| Communications Options | | | | |
| Option - One | N/A | Dell Wireless™ 1510 Draft 802.11n Mini Card \$20 | N/A | N/A |
| Option - Two | N/A | Intel® WiFi Link 5100 802.11a/g/n Draft Mini Card \$20 | N/A | N/A |
| Option - Three | N/A | Intel® WiFi Link 5300 802.11a/g/n Draft Mini Card \$50 | N/A | N/A |
| Option - Four | | Intel® WiMAX/WiFi Link 5150 802.16e and 802.11a/g/n Draft Mini Card \$70 | | |
| Option - Five | N/A | Dell Wireless 370 Bluetooth Module \$20 | N/A | N/A |
| Power Upgrades | | | | |
| Option - One | 2nd battery \$139.00 | Additional 9 Cell Primary Battery \$184 | RW635AA#ABA - HP 1 Bay Battery Charging Station \$143 | Extra Li-Ion Battery 6-cell \$65 |
| Option - Two | N/A | Additional 6 Cell Primary Battery \$136 | N/A | Extra Li-Ion Battery 9-cell \$89 |
| Option - Three | N/A | 12-Cell High Capacity Battery Slice \$208 | N/A | Advanced Ultrabay Battery III \$99 |
| Carrying Case Options | | | | |
| Option - One | \$ 39.99 Marware Sleeve | Deluxe Nylon (two pocket) Carrying Case \$48 | RR314AA - HP Nylon Carrying Case \$25 | ThinkPad Basic Case \$25 |
| Option - Two | \$ 45.99 Marware Case | Executive Leather Carrying Case \$97 | RR315AA - HP Universal Nylon Carrying Case \$39 | ThinkPad Business Topload Case \$49 |
| Option - Three | \$ 199 Deluxe leather carrying case | Neoprene Sleeve 14 inch \$27 | RR316AA - HP Executive Leather Carrying Case \$59 | TP Checkpoint-Friendly Case \$75 |
| Option - Four | \$ 99 Back pack case | Slim Nylon Case (up to 14.1) \$27 | RR317AA - HP Deluxe Nylon Backpack \$39 | Lenovo Standard Backpack \$49 |
| Docking Station Options | | | | |
| Option - One | N/A | E/Port Standard Port Replicator \$120 | N/A | ThinkPad Essential Port Replicator \$83 |
| Option - Two | N/A | E/Port Plus Port Replicator \$184 | KP080AA#ABA - HP Docking Station 120W - ADD \$200 | ThinkPad Advanced Mini Dock \$125 |
| Option - Three | N/A | E-View Laptop Stand \$74 | KP081AA#ABA - HP Advanced Docking Station 150W - ADD \$285 | |
| Option - Four | N/A | E-Flat Panel Mitor Stand \$92 | N/A | |
| Other Upgrades | | | | |
| Option - one | Bluetooth Keyboard - \$71.32 | Dell Laser Mouse \$18 | (EM886AA) HP COMPAQ LE1711 LCD Monitor \$192.03 | Kensington Security Lock \$42 |
| Option - Two | Bluetooth Mouse - \$ 62.32 | Dell Bluetooth Travel Mouse \$18 | PC766A - HP Security Lock - \$39 | DisplayPort to Single-Link DVI-D Monitor Cable \$20 |
| Option - Three | Apple Remote - \$ 19.00 | Dell USB Multimedia Pro Keyboard \$22 | DC369A - USB/PS2 Optical 2-Button Scroll Mouse - \$14.32 | T500/R500/W500 15W Privacy Filter \$45 |
| Option - Four | White Macbook Only | 4GB memory key (A2907543) \$13 | 3 yr NBD offsite with accidental damage UC279E ADD \$199 | TP SATA HDD BAY ADAPTER III \$51 |
| Option Five | Apple Mini-DVI to DVI Adapter \$25 | NVIDIA QUADRO NVS 160M With Express Card \$80 | N/A | 3 Years Onsite 9x5xNBD + 3 Years ADP Protection \$102 |
| Option - Six | Apple Mini-DVI to VGA Adapter \$ 25 | NVIDIA QUADRO NVS 160M With PC-Card \$80 | N/A | 4 Years Onsite 9x5xNBD + 4 Years ADP Protection \$264 |
| Option - Seven | MacBook (Aluminum Unibody) Only | Internal Fingerprint Reader \$20 | N/A | N/A |
| Option - Eight | Mini DisplayPort to DVI Adapter \$ 34 | Extra 90W, A/C Adapter, 3-pin \$30 | N/A | N/A |
| Option - Nine | Mini DisplayPort to Dual-Link DVI Adapter \$ 110 | Integrated Webcam with Digital Microphone \$ 30 | N/A | N/A |
| Option - Ten | Mini DisplayPort to VGA Adapter \$ 34 | 1 Year Extended Battery Service for Year 2 of System Life \$89 | N/A | N/A |
| Option - Eleven | USB Modem - \$ 53.99 | 2 Years Extended Battery Service for Year 2 of System Life \$99 | N/A | N/A |
| Option - Twelve | N/A | 1 Year Hard Drive Data Recovery Service \$59 | N/A | N/A |
| Option - Thirteen | N/A | 2 Year Hard Drive Data Recovery Service 69 | N/A | N/A |
| Option - Fourteen | N/A | 3 Year Hard Drive Data Recovery Service \$79 | N/A | N/A |
| Option - Fifteen | N/A | 4 Year with Complete Care \$189 | N/A | N/A |

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| Option - Sixteen | N/A | 14.1" UltraSharp Wide Screen WXGA+ (1440x900) LED Panel \$90 | N/A | N/A |
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| MANUFACTURER | Apple | Dell | HP | Lenovo |
|--------------------------------------|---|--|--|--|
| | High End Notebook | High End Notebook | High End Notebook | High End Notebook |
| MODEL NUMBER | MC118LL/A | Latitude E6500 | FM887UA#ABA | 224393U |
| | MacBook Pro | | 8530p | ThinkPad T500 |
| QUOTATION NUMBER | 492358 | 37276625 | 83272544 | 492266 |
| Quote Valid Until | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 |
| BASE UNIT PRICE | \$1,818.14 | \$1,387.14 | \$1,810.18 | \$1,322.14 |
| SPECIFICATIONS | | | | |
| Processor (Intel) | 2.53GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache running at full processor speed | Intel Core 2 Duo P8700 with VT 2.53GHz, 1066Mhz, 3ML2 Cache, Dual Core | Intel Core 2 Duo Processor T9600 (2.8G) | Intel Core 2 Duo P8700 (2.53GHz, 1066MHz, 3mb cache) |
| Display | 15.4-inch (diagonal) LED-backlit glossy widescreen display with support for millions of colours | 15.4 inch Wide Screen WXGA LCD (1280x800) | 15.4-inch diagonal WSXGA+ anti-glare wide-viewing angle (1680 x 1050 resolution) | 15.4" WXGA (1280x800), anti-glare, LED backlight, 200 nits, 16:10 aspect, 400:1 contrast ratio camera on top of screen, 1.3-megapixel, fixed focus |
| Memory | 4G RAM | 4.0GB, DDR2-800 SDRAM, 2 DIMM | 2GB 800-MHz DDR2 SDRAM (1 DIMM) | 4GB (2 DIMM), 8GB max, PC3-8500 1066MHz DDR3, non-parity, dual-channel capable |
| Memory Expansion Slots/Available | 2 Slots/ 0 Available | Two Dimm slots (0 available) | 2 slots in total, 1 available | Two 204pin SODIMM SLOTS (1 Avail) |
| Hard Drive Storage | 250 GB 5400-rpm Serial ATA hard drive | 250 GB Hard Drive, 9.5MM 7200RPM | 250 GB 7200 rpm SATA HDD | 320GB (7200 rpm) SATA 1.5Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, supports 2nd disk, ThinkPad Shock Mounted Hard Drive, Active Protection System™ Intel Turbo Memory, Half-Mini PCIe adapter, 2GB flash, disk-cache accelerator |
| Optical Devices | 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW) | 8X DVD+/-RW with Roxio CreatorDell | DVD+/-RW SuperMulti DL Drive | DVD burner, SATA 1.5Gb/s, Ultrabay Slim, removable |
| Removable Media - Optional | N/A | Optional | N/A | One ExpressCard/34 or ExpressCard/54 One Type I or Type II slot, CardBus 32-bit |
| Sound Card - Integrated | Built-in stereo speakers, Built-in omnidirectional microphone (located under left speaker grille), Combined optical digital input/analog line in (minijack), Combined optical digital output/analog line out (minijack), Supports Apple stereo headset with mic | AC97 (Soft Audio) / ICH3 - Stereo 20 Bit | High Definition Audio w/24-bit DACline out/headphone and microphone jacks integrated microphone | HD Audio, Conexant 20561 codec / stereo speakers, 1 watt, volume up, down, mute buttons, digital microphone, microphone input jack, headphone jack |
| Video Card - Integrated | NVIDIA GeForce 9600GR graphics processor with Dual-Link DVI support, 256 MB GDDR3 dedicated memory, NVIDIA GeForce 9400M graphics processor with 256MBDDR3 SDRAM shared with main memory | 256MB NVIDIA Quadro NVS 160M | ATI Mobility Radeon X2600 graphics with 256 MB dedicated video memory | Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), in GM45, Display port (supports single-link DVI-D via cable 45J7915) |
| Network Interface - Integrated | Built-in 10/100/1000Base-T GigaBit Ethernet (RJ45 Connector), Built-in Airport Extreme Wi-Fi Networking (based on IEEE802.11n draft spec.) IEEE 802.11a/b/g/draft n compatible, Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) | 10/100/1000 Network Card - Dell Wireless 1397 802.11b/g Mini Card | 56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC) Intel Wireless WiFi Link 4965AG, HP Integrated Module with Bluetooth Wireless Technology | 56K V.92 modem w/voice Intel Wireless WiFi Link 5100AGN (300mbps), NO Bluetooth Intel 82567LM Gigabit Ethernet - Integrated WWAN Upgradeable |
| Mini PCI 56k Modem + 10/100 Ethernet | N/A (USB Modem available - see options below) | eSATA, USB PowerShare, headphone/speaker out, mic | | |
| Pointing Device | Multi-Touch trackpad for precise cursor control, supports two-finger scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, double-tap, and drag capabilities | Touch Pad with Integrated Pick Buttons | Enhanced dual pointing devices (touchpad with scroll zone and pointstick, both with three pick buttons) | TrackPoint, Internet ScrollBar, magnifying glass UltraNav, wide touch pad, Tap Zones, scrolling regions label |
| Slots | SD Card Slot | 5-in-1 card reader; PCMCIA & ExpressCard 54 | 1 x Type I/II PC Card slot, 1 x Integrated Smart Card Reader, 1 x Secure Digital (SD) slot | 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) |
| I/O Ports | One FireWire 800 port at up to 800 Mbps, Two 480-Mbps USB 2.0 ports, Built-in iSight camera, Mini DisplayPort | IEEE - 1394, docking connector, USB 2.0 (x4), VGA, Display Port, RJ-11 (optional), RJ-45 | 1 x RJ-11/modem, 1 x RJ-45/Ethernet, 2 x USB 2.0, 1 x 1394a, 1 x HDMI port | Three USB 2.0, external monitor (VG,DP), modem (RJ-11), ethernet (RJ-45), IEEE 1394 FireWire 400 FingerPrint Reader on Palm Rest, Swipe Sensor |

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|-------------------------------|--|---|---|--|
| Drive Bays | 1 Bay / 0 Available | 1 Modular Drive Bay | 2 | Lithium Ion 6-cell, supports Ultrabay Slim battery |
| Notebook Dimensions | Height: 2.41 cm (0.95 inch), Width: 36.4 cm (14.35 inches), Depth: 24.9 cm (9.82 inches) | 1.3"(H)x14.1"(W)x10.1"(D) | (HxWxD) 1.1 in (at front) x 14.0 in x 10.24 in | 14.1" x 10" x 1.2-1.3" |
| Notebook Weight | Weight: 2.49 kg (5.5 pounds) | starts at 5.1 lbs | Starting from 6.1 lb | Lithium Ion 6-cell: starting at 5.9 lb (2.7kg) |
| Power Supply | 73-watt-hour lithium-polymer battery, 85W MagSafe Power Adapter with cable management system, MagSafe power port | 9-cell 85 WHr Smart Lithium Ion battery | External 90-watt Smart AC adapter, 6-foot power cord included. HP Fast Charge* *HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to 12-cell Ultra-Capacity batteries. Battery: 8-cell (73 WHr) Lithium-Ion Security: TPM 1.2 Embedded Security Chip with HP Fingerprint Sensor | 65-watt (GMA graphics) AC adapter |
| Speakers | Built-in | Built-In | Integrated stereo speakers and microphone | Integrated Speakers & Mic |
| Operating System | Mac OS X 10.6 | Windows XP Pro SP2 with Vista Business License | Genuine Windows Vista Business/XP Downgrade | Windows XP Professional with Vista COA |
| Productivity Software | N/A | N/A | N/A | N/A |
| Warranty | 3 Year Depot Warranty | 3 Year Next Business Day On-Site with Complete Care | 3 years parts and labour | Includes 3 Year Depot EasyServ |
| Delivery | Incl to Keele and Glendon Campuses | Included to Keele or Glendon Campus | Free delivery | Incl to Keele and Glendon Campus |
| OPTIONS | | | | |
| Processor Upgrades | | | | |
| Option - One | \$ 250 - MB985LL/A - 2.66GHZ Core 2 Duo w/6MB L2 cache, 4GB DDR3 1066MHz RAM, 320 GB Serial-ATA 5400rpm, 256MB NVIDIA GeForce 9400M + 9600M Dedicated Video RAM | Intel®Core™ 2 Duo T9700 (2.66GHz, 6M L2 Cache, 1066MHz \$210 | N/A | Core2Duo T9600 2.8GHz CPU + 6MB Cache, 4GB RAM, 320GB HDD - 7200RPM, ATI Discrete HD Graphics (256MB), 9-Cell Battery, no LED Backlit, same O/S, same other specs \$388.66 |
| Option - Two | \$ 500 - MB986LL/A - 15" LED Glossy Display, 2.8GHz Core 2 Duo w/6MB L2 Cache, 4GB DDR3 1066MHz RAM, 320GB Serial-ATA 5400 RPM, 512MB NVIDIA GeForce 9400M + 9600M GT, 2 USB Ports (Total) | Intel®Core™ 2 Duo T9900 (3.06GHz, 6M L2 Cache, 1066MHz \$400 | N/A | N/A |
| Option - Three | \$ 700 - MC226LL/A - 17" LED Glossy Display, 2.8GHz Core 2 Duo w/6MB L2 Cache, 4GB DDR3 1066MHz RAM, 500GB Serial-ATA 5400 RPM, 512MB NVIDIA GeForce 9400M + 9600M GT, 3 USB Ports (Total), ExpressCard Slot, no SD Slot | Precision M6400 17" WXGA Quote # 37030869 \$883 , see 17" laptop page for specs | N/A | N/A |
| Memory Upgrades | | | | |
| Option - One | n/a | N/A | KT292AA - HP 1 GB 800 MHz PC2-6400 DDR2 SODIMM \$41 | Add 4GB Module (6GB Total) \$429 |
| Option - Two | N/A | N/A | KT293AA - HP 2 GB 800 MHz PC2-6400 DDR2 SODIMM \$78 | Add 2x4GB Module (8GB Total) \$858 |
| Option - Three | N/A | N/A | N/A | |
| Hard Drive Upgrades | | | | |
| Option - One | N/A | 64GB Dell Dell Mobility Solid State Drive \$120 | N/A | TP SATA 320GB 5400RPM HDD \$72 |
| Option - Two | N/A | 128GB Dell Dell Mobility Solid State Drive \$280 | N/A | 250GB 7200 RPM FDE SER ATA HDR \$98 |
| Option - Three | N/A | 160GB Encrypted Hard Drive, 7200RPM \$0 | N/A | 320GB 7200 RPM SERIAL ATA HDR \$105 |
| Option - Four | N/A | | N/A | TP 500GB 5400RPM SATA HDD \$125 |
| Option - Five | N/A | | N/A | TP 128GB SOLID STATE DRIVE \$385 |
| Option - Six | N/A | | N/A | TP 250GB FDE SOLIDSTATEDRIVE \$715 |
| Option - Seven | N/A | | N/A | |
| Option - Eight | N/A | | N/A | |
| Optical Drive Upgrades | | | | |

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| Option - One | N/A | Blu-ray Disc w Roxio and Cyberlink PDVD (Windows Vista Only) \$500 | N/A | TP DVD Burner Ultrabay (SATA) \$72 |
| Option - Two | N/A | N/A | N/A | |
| Option - Three | N/A | N/A | N/A | |
| Floppy Drive Upgrades | | | | |
| Option - One | N/A | N/A | N/A | USB Portable Disk Drive \$55 |
| Power Upgrades | | | | |
| 2nd Battery | \$ 129 15" only | Additional 6 Cell Primary Battery \$136 | N/A | Extra Li-Ion Battery 6-cell \$65 |
| Battery Charger | N/A | 12-Cell High Capacity Battery Slice \$208 | RW635AA#ABA - HP 1 Bay Battery Charging Station \$143 | Extra Li-Ion Battery 9-cell \$89 |
| Ultrabay 200 Li-Ion Battery | N/A | Additional 9 Cell Primary Battery \$168 | ED493AA - HP Car/Auto Adapter \$69 | Advanced Ultrabay Battery III \$99 |
| Option - Four | N/A | N/A | AJ359AA - HP Extended Life Battery \$180 | N/A |
| Communication Options | | | | |
| Option - One | Wireless card - included | Dell Wireless™ 1510 Draft 802.11n Mini Card \$20 | Included: Intel Wireless WiFi Link 4965AG, HP Integrated Module with Bluetooth Wireless Technology | N/A |
| Option - Two | N/A | Intel® WiFi Link 5100 802.11a/g/n Draft Mini Card \$20 | N/A | N/A |
| Option - Three | N/A | Intel® WiFi Link 5300 802.11a/g/n Draft Mini Card \$50 | N/A | N/A |
| | | Intel® WiMAX/WiFi Link 5150 802.16e and 802.11a/g/n Draft Mini Card \$70 | | |
| Option - Four | N/A | Dell Wireless 370 Bluetooth Module \$20 | N/A | N/A |
| Carrying Case Options | | | | |
| Deluxe Nylon Carrying Case | \$39.00 | Deluxe Nylon (two pocket) Carrying Case \$48 | RR314AA - HP Nylon Carrying Case \$25 | ThinkPad Basic Case \$25 |
| Mainstream Nylon Carrying Case | \$49.00 | Neoprene Sleeve 14 inch \$27 | RR315AA - HP Universal Nylon Carrying Case \$39 | ThinkPad Business Topload Case \$49 |
| Mainstream Leather Carrying Case | \$199.00 | Classic Leather Carrying Case \$97 | RR316AA - HP Executive Leather Carrying Case \$59 | TP Checkpoint-Friendly Case \$75 |
| Back Pack Case | \$99.00 | N/A | RR317AA-HP Deluxe Nylon Backpack \$39 | Lenovo Standard Backpack \$49 |
| Docking Station Options | | | | |
| Option - One | N/A | E/Port Standard Port Replicator \$120 | KP080AA#ABA - HP Docking Station 120W \$200 | ThinkPad Essential Port Replicator \$83 |
| Option - Two | N/A | E/Port Advanced Port Replicator \$184 | KP081AA#ABA - HP Advanced Docking Station 150W \$285 | ThinkPad Advanced Mini Dock \$121 |
| Option - Three | N/A | E-View Laptop Stand \$74 | N/A | ThinkPad Adjustable Notebook Stand \$65 |
| Option - Four | N/A | E-Flat Panel Monitor Stand \$92 | N/A | |
| Other Upgrades | | | | |
| Option - one | Bluetooth Keyboard - \$ 71.32 | Mouse: Dell Laser Mouse \$18 | PC766A - HP Security Lock \$39 | Kensington Security Lock \$42 |
| Option - Two | Bluetooth Mouse - \$ 62.32 | Dell Bluetooth Travel Mouse \$18 | DC369A - USB/PS2 Optical 2-Button Scroll Mouse \$14.32 | DisplayPort to Single-Link DVI-D Monitor Cable \$20 |
| Option - Three | Apple Remote \$ 19.00 | Dell USB Multimedia Pro Keyboard \$22 | (EM886AA) HP COMPAQ LE1711 LCD Monitor \$192.03 | T500/R500/W500 15W Privacy Filter \$45 |
| Option - Four | Mini DisplayPort to DVI Adapter \$ 34.00 | Backlit Keyboard \$60 | 3 yr NBD offsite with accidental damage UC279E ADD \$199 | TP SATA HDD BAY ADAPTER III \$52 |
| Option Five | MiniDisplayPort to Dual-Link DVI \$ 110.00 | 4GB memory key (A2907543) \$13 | N/A | 3 Years Onsite 9x5xNBD + 3 Years ADP Protection \$160 |
| Option - Six | MiniDisplayPort to VGA \$ 34.00 | 15.4" Wide Screen WUXGA (1920x1200) LCD Panel \$150 | N/A | 4 Years Onsite 9x5xNBD + 4 Years ADP Protection \$350 |
| Option - Seven | Extended Keyboard \$ 59.32 | 15.4" Wide Screen WXGA+ (1440x900) LCD Panel \$90 | N/A | N/A |
| Option - Eight | N/A | Extra 90W, A/C Adapter, 3-pin \$30 | N/A | N/A |
| Option - Nine | N/A | Intergrated Webcam with Digital Microphone \$30 | N/A | N/A |
| Option - Ten | N/A | Internal Fingerprint Reader \$20 | N/A | N/A |
| Option - Eleven | N/A | FIPS Certified Fingerprint Reader \$110 | N/A | N/A |
| Option - Twelve | N/A | 1 Year Extended Battery Service for Year 2 of System Life \$89 | N/A | N/A |

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|--------------------|-----|---|-----|-----|
| Option - Thirteen | N/A | 2 Years Extended Battery Service for Year 2 of System Life \$99 | N/A | N/A |
| Option - Fourteen | N/A | 1 Year Hard Drive Data Recovery Service \$59 | N/A | N/A |
| Option - Fifteen | N/A | 2 Year Hard Drive Data Recovery Service \$69 | N/A | N/A |
| Option - Sixteen | N/A | 3 Year Hard Drive Data Recovery Service \$79 | N/A | N/A |
| Option - Seventeen | N/A | 4 Year with Complete Care \$189 | N/A | N/A |

| MANUFACTURER | Apple | Dell | HP | Lenovo |
|--------------------------------------|--|---|---|--|
| | Lightweight Notebook | | | |
| MODEL NUMBER | MC223LL/A | | FN058UA#ABA | ThinkPad X200 |
| | MacBook Air | Latitude E4200 | 2530p | 74595FU |
| QUOTATION NUMBER | 488439 | 37031305 | 83272544 | 492265 |
| Quote Valid Until | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 | Feb - March 2010 |
| BASE UNIT PRICE | \$2,099.34 | \$1,639.14 | \$1,622.95 | \$1,301.14 |
| SPECIFICATIONS | | | | |
| Processor (Intel) | 1.86 GB Intel Core 2 Duo processor with 6MB on-chip shared L2 cache running at full processor speed | Intel Core2 DuoSU9600, 1.60GHz ULV, with Latitude ON | Intel Core 2 Duo LV Processor SL9400 (1.86GHz) | Intel® Core 2 Duo Processor P8600 2.40GHz |
| Display | 13.3-inch (diagonal) glossy widescreen TFT LED backlit display with support for millions of colors | 12.1 inch Wide Screen WXGA LCD | 12.1-inch diagonal Illumi-Lite, WXGA, anti-glare (1280 × 800) | 12.1" WXGA (1280x800) TFT, anti-glare, CCFL backlight, 200 nits, 16:10 aspect ratio, 250:1 contrast ratio |
| Memory | 2GB of 1066MHz DDR2 SDRAM onboard | 2GB DDR2, SDRAM, 2 Dimms | 2GB 800MHz DDR2 SDRAM (1 DIMM) | 2GB std / PC3-8500 1066MHz DDR3 |
| Memory Expansion Slots/Available | 0 | Two Dimm slots (0 available) | 1 slot in total - 0 slot available | two 204-pin SO-DIMM sockets (1 available) |
| Hard Drive Storage | 120 GB 4200-rpm SATA hard disk drive | 64 GB Dell Mobility Solid State Drive | 120 GB 5400 rpm PATA Hard Drive | 160GB (7200rpm) removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™ |
| Optical Devices | External Apple Superdrive | E-Module w/ 24X DVD/CDRW with Cyberlink PowerDVD® | DVD+/-RW SuperMulti DL Drive | None (use ThinkPad X200 UltraBase (43R8781) and CD-RW/DVD-ROM (43N3213)) |
| Removable Media - Optional | N/A | Optional | N/A | One ExpressCard/34 or ExpressCard/54 |
| Sound Card - Integrated | Built-in mono speaker, Built-in omnidirectional microphone, Analog audio output/headphone out (minijack) | AC97 (Soft Audio) / ICH3 - Stereo 20 Bit | High Definition Audio w/24-bit DAC line out/headphone and microphone jacks integrated microphone | High Definition Audio, Conexant CX20561 codec, 1 watt speaker |
| Video Card - Integrated | NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory, Extended desktop and video mirroring supporting millions of colours up to 2560 x 1600 pixel on external display, simultaneously. | Intel Integrated Graphics Media Accelerator 4500MHD | Mobile Intel Graphics Media Accelerator 4500MHD | N/A |
| Network Interface - Integrated | Built-in Airport Extreme Wi-Fi Networking (based on IEEE802.11n draft spec.) IEEE 802.11a/b/g/draft n compatible, Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) | Integrated 10/100/1000 Network Card - Dell Wireless 1397 WLAN | 10/100/1000 NIC | N/A |
| Mini PCI 56k Modem + 10/100 Ethernet | External USB Modem (See Options Below), External USB Ethernet Adapter | N/A | 56K Modem Integrated Intel Gigabit Network Connection (10/100/1000 NIC) Intel PRO / Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology | · 56K V.92 modem w/voice · Intel Wireless WiFi Link 5100AGN (300mbps) No Bluetooth · Intel Gigabit Ethernet - Integrated |
| Pointing Device | Solid-state trackpad with Multi-Touch gesture support for precise cursor control; supports two-finger scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities | N/A | Touchpad with scroll zone and Pointstick, both with two pick buttons Includes: 2MP Camera | TrackPoint pointing device, Press-to-select, Internet ScrollBar, magnifying glass Integrated Fingerprint Reader, 5-1 reader, (MultiMediaCard, Memory Stick, Mem Stick Pro, Secure Digital, SDHC) |
| Slots | 0 | One Type I or Type II | 1 Type I/II PC Card slot Secure Digital (SD) slot | Intel Graphics Media Accelerator 4500MHD, External monitor support via analog VGA DB-15 connector / DisplayPort via UltraBase |
| I/O Ports | 1 USB 2.0 Port, Built-in iSight camera, Mini DisplayPort | Docking connector, USB 2.0 (2) Powered USB (D/Bay), 1394, VGA, headphone/speaker out, infrared port, RJ-11, RJ-45, AC power, SD card slot, Specifications - Ports | 2 USB2.0; 1 1394a; 1 microphone in; 1 headphone/line-out; 1RJ-11; 1 RJ-45; 1 docking connector; 1 battery connector | Three USB 2.0, external monitor (VGA DB-15), modem (RJ-11), ethernet (RJ-45) |
| Drive Bays | 1 Bay / 0 Available | E-Module | 2 | Lithium Ion 6-cell |

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| Notebook Dimensions | Height: 0.16 - 0.76 inch (0.4 - 1.94 cm) Width: 12.8 Inch (32.5 cm) Depth: 8.94 Inch (22.7 cm) | 0.79"(h) x 11.4"(w) x 8.0"(d) | (HxWxD) 2.5 cm (at front) x 28.2 x 21.4cm | 11.6" x 8.3" x 0.8-1.4" |
| Notebook Weight | Weight: 1.36 kg (3 pounds) with battery | Start at 2.2lbs | Starting from 1.29 kg | 4-cell: from 2.98 lb (1.35kg); 6-cell: from 3.26 lb (1.48kg); 9-cell: from 3.61 lb (1.64kg) |
| Power Supply | Integrated 40-watt-hour lithium-polymer battery | 4-cell Prismatic Primary battery featuring ExpressCharge™ | External 65-watt Smart AC adapter, 6-foot (1.8-metre) power cord included. Total length including external AC adapter is 12 feet (3.66 metre). HP Fast Charge* *HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. Fast | 65-watt (GMA graphics) AC Adapter Climate Savers® certified ENERGY STAR® 5.0-compliant EPEAT™ Gold rating ROHS-compliant |
| Speakers | Built-in mono speaker | Built -in | Integrated speakers and microphone | Integrated Speakers & Mic |
| Operating System | Mac OS 10.5 | Windows XP Pro SP2 with Vista Business License | Genuine Windows Vista Business/XP Downgrade | Windows Vista Business 32-bit with Vista COA (eligible for XP Professional Downgrade - media not included) |
| Productivity Software | N/A | N/A | N/A | N/A |
| Warranty | 3yr Depot International | 3-Yr Next Business Day w/ Complete Care | 3 Yrs parts and labour | 3 year on-site NBD |
| Delivery | Incl to Keele and Glendon Campuses | Incl to Keele and Glendon Campus | Free delivery | Incl to Keele and Glendon Campus |
| OPTIONS | | | | |
| Processor Upgrades | | | | |
| Option - One | N/A | Intel® Core™2 Duo ULV SU9600 (1.60GHz) with fingerprint reader \$60 | N/A | N/A |
| Option - Two | N/A | Regal Red (Processor Upgrade must be selected) \$190 | N/A | N/A |
| Memory Upgrades | | | | |
| Option - One | N/A | 3GB DDR3-1067 SDRAM \$70 | KT292AA - HP 1 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$41 | Add 1GB module (3GB total) \$33 |
| Option - Two | N/A | 5.0GB, DDR3-1066 SDRAM, 1 GB Intergrated + 4 GB DIMM \$440 | KT293AA - HP 2 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$78 | Add 2GB module (4GB total) \$58.30 |
| Hard Drive Upgrades | | | | |
| Option - One | | 128GB Dell Mobility Solid State Drive \$170 | N/A | TP SATA 320GB 5400RPM HDD \$72 |
| Option - Two | N/A | N/A | N/A | 250GB 7200 RPM FDE SER ATA HDR \$98 |
| Option - Three | N/A | N/A | N/A | 320GB 7200 RPM SERIAL ATA HDR \$105 |
| Option - Four | N/A | N/A | N/A | TP 500GB 5400RPM SATA HDD \$125 |
| Option - Five | N/A | N/A | N/A | TP 128GB SOLID STATE DRIVE \$385 |
| Option - Six | N/A | N/A | N/A | TP 250GB FDE SOLIDSTATEDRIVE \$715 |
| Optical Drive Upgrades | | | | |
| Option - One | Superdrive - Included | E-Module w/ 8X DVD+/-RW w/Roxio and Cyberlink PowerDVD \$61 | Included: DVD+/-RW SuperMulti DL Drive | THINKPAD X200 ULTRABASE \$160 |
| Option - Two | N/A | MediaBase w/8X DVD+/-RW w/Roxio and Cyberlink Power/DVD \$221 | N/A | Lenovo USB 2.0 Super Multi-Burner Drive \$109 |
| Option - Three | N/A | N/A | N/A | |
| Floppy Drive Upgrades | | | | |
| Option - One | N/A | N/A | DC361B - USB 1.44 Floppy - ADD \$36 | USB Portable Disk Drive \$55 |
| Power Upgrades | | | | |
| Option - One | N/A | Additional 6 Cell Battery \$176 | EH767AA - Primary 6-cell Battery Pack - \$100 | Extra X200 Series Li-Ion Battery 4-cell - 3.3 hrs- \$85 |
| Option - Two | N/A | Additional 4 Cell Battery \$136 | EH768AA - Primary 9-cell Battery Pack - \$110 | Extra X200 Series Li-Ion Battery 6-cell -6.5 hrs \$75 |
| Option - Three | N/A | 6 Cell Battery Slice \$176 | ED493AA - HP Car Adapter - \$69 | Extra X200 Series Li-Ion Battery 9-cell -9.8 hrs \$99 |
| Option - Four | | | | |
| Communication Options | | | | |

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|--------------------------------|--|---|--|--|
| Option - One | Wireless Card Included | Dell Wireless™ 1510 Draft 802.11n Mini Card \$20 | Included: Intel PRO / Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology | N/A |
| Option - Two | N/A | Intel® WiFi Link 5100 802.11a/g/n Draft Mini Card \$20 | N/A | N/A |
| Option - Three | N/A | Intel® WiFi Link 5300 802.11a/g/n Draft Mini Card \$50 | N/A | N/A |
| | | Intel® WiMAX/WiFi Link 5150 802.16e and 802.11a/g/n Draft Mini Card \$70 | | |
| Option - Four | N/A | Dell Wireless 370 Bluetooth Module \$20 | N/A | N/A |
| Carrying Case Options | | | | |
| Option - One | Deluxe Nylon \$39.99 | Executive Leather Carrying Case \$97 | RR314AA - HP Nylon Carrying Case - \$25 | ThinkPad Classic Case \$25 |
| Option - Two | Mainstream Nylon N/A | N/A | RR315AA - HP Universal Nylon Carrying Case - \$39 | ThinkPad Business Topload Case \$49 |
| Option - Three | Mainstream Leather \$199 | Leather Folio Case \$92 | RR316AA - HP Executive Leather Carrying Case - \$59 | TP Checkpoint-Friendly Case \$75 |
| Option - Four | Back Pack \$99 | Small Nylon Carrying Case (13.3) \$27 | RR317AA - HP Deluxe Nylon Backpack - \$39 | Lenovo Business Backpack \$49 |
| Docking Station Options | | | | |
| Option - One | N/A | E/Port Standard Port Replicator \$120 | N/A | USB 2.0 Enhanced Port Replicator \$130 |
| Option - Two | N/A | E/Port Advanced Port Replicator \$184 | EQ773AA#ABA - 2400 / 2500 Ultra-Light Docking Station - ADD \$83.15 | ThinkPad Adjustable Notebook Stand \$50 |
| Option - Three | N/A | E-View Laptop Stand \$74 | N/A | N/A |
| Option - Four | N/A | E-Flat Panel Mitor Stand \$92 | N/A | N/A |
| Other Upgrades | | | | |
| Option - one | Bluetooth Keyboard - \$ 71.32 | Mouse: Dell Laser Mouse \$18 | PC766A - HP Security Lock - ADD \$39 | Kensington Lock \$42 |
| Option - Two | Bluetooth Mouse - \$ 62.32 | Dell Bluetooth Travel Mouse \$18 | DC369A - USB/PS2 Optical 2-Button Scroll Mouse - ADD \$14.32 | DisplayPort to Single-Link DVI-D Monitor Cable \$20 |
| Option - Three | Apple Remote \$ 19.00 | Backlit Keyboard \$60 | (EM886AA) HP COMPAQ LE1711 LCD Monitor \$192.03 | T500/R500/W500 15W Privacy Filter \$45 |
| Option - Four | Mini DisplayPort to DVI Adapter \$ 34.00 | Dell USB Multimedia Pro Keyboard \$22 | 3 yr NBD offsite with accidental damage UC279E ADD \$199 | TP SATA HDD BAY ADAPTER III \$52 |
| Option Five | MiniDisplayPort to Dual-Link DVI \$ 110.00 | 4GB memory key (A2907543) \$13 | N/A | 3 Years Onsite 9x5xNBD + 3 Years ADP Protection \$160 |
| Option - Six | MiniDisplayPort to VGA \$ 34.00 | Dell Slim 65W Auto/Air/AC Adapter \$72 | N/A | 4 Years Onsite 9x5xNBD + 4 Years ADP Protection \$350 |
| Option - Seven | Extended Keyboard \$ 59.32 | 1 Year Extended Battery Service for Year 2 of System Life \$89 | N/A | |
| Option - Eight | N/A | 2 Years Extended Battery Service for Year 2 of System Life \$99 | N/A | N/A |
| Option - Nine | N/A | 1 Year Hard Drive Data Recovery Service \$59 | N/A | N/A |
| Option - Ten | N/A | 2 Year Hard Drive Data Recovery Service \$69 | N/A | N/A |
| Option - Eleven | N/A | 3 Year Hard Drive Data Recovery Service \$79 | N/A | N/A |
| Option - Twelve | N/A | 4 Year with Complete Care \$189 | N/A | N/A |

| MANUFACTURER | Apple | Dell | HP | Lenovo |
|----------------------------------|-------|------|---|--------|
| | | | EliteBook 17" display | |
| MODEL NUMBER | | | FN036UA#ABA | |
| | | | HP 8730w | |
| QUOTATION NUMBER | | | 83272544 | |
| Quote Valid Until | | | Feb - March 2010 | |
| BASE UNIT PRICE | | | \$2,002.14 | |
| SPECIFICATIONS | | | | |
| Processor (Intel) | | | Intel Core 2 Duo Processor P8700 (2.53GHz, 3 MB L2 cache, 1066 MHz FSB) | |
| Display | | | 17.0-inch diagonal WSXGA+ anti-glare wide-viewing angle (1680 x 1050 resolution) | |
| Memory | | | 2048-MB 667-MHz DDR2 SDRAM (1 DIMM) | |
| Memory Expansion Slots/Available | | | 2 slot in total - 1 slot available | |
| Hard Drive Storage | | | 320GB 7200 rpm | |
| Optical Devices | | | DVD+/-RW SuperMulti DL LightScribe Drive | |
| Removable Media - Optional | | | N/A | |
| Sound Card - Integrated | | | ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone | |
| Video Card - Integrated | | | ATI Mobility FireGL V5725 with 256 MB | |
| Network Interface - Integrated | | | (10/100/1000 NIC) | |
| Pointing Device | | | Enhanced dual pointing devices (touchpad with scroll zone and pointstick, both with three pick buttons) | |
| Slots | | | 1 Type I/II PC Card slot Supports 32-bit CardBus and 16-bit PC Cards | |
| I/O Ports | | | RJ-45/Ethernet port- RJ-11/modem port - 6 USB 2.0 ports | |
| Drive Bays | | | 2 bays - 0 available | |
| Notebook Dimensions | | | 1.3 in (at front) x 15.5 in x 10.8 in | |
| Notebook Weight | | | Starting from 7.5 lb | |
| Power Supply | | | External 120-watt Smart AC adapter, 6- foot power cord included. Total length including external AC adapter is 12 feet. 8-cell (73 WHr) Lithium-Ion battery. HP Fast Charge* recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to 12-cell Ultra- Capacity batteries. | |
| Speakers | | | Integrated stereo speakers | |
| Operating System | | | Windows 7/XP Pro downgrade | |
| Productivity Software | | | n/a | |
| Warranty | | | 3 Yrs Parts and Labour | |
| Delivery | | | Free Delivery | |
| OPTIONS | | | | |
| Memory Upgrades | | | | |
| Option - One | | | KT292AA - HP 1 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$41 | |
| Option - Two | | | KT293AA - HP 2 GB 800 MHz PC2-6400 DDR2 SODIMM - add \$78 | |

| | | | |
|--------------------------------|--|--|--|
| Hard Drive Upgrades | | | |
| Option - One | | | |
| Optical Drive Upgrades | | | |
| Option - One | | | Included - DVD+/-RW SuperMulti DL Drive |
| Floppy Drive Upgrades | | | |
| Option - One | | | DC361B - USB 1.44 Floppy - ADD \$36 |
| Power Upgrades | | | |
| Option - One | | | AT486AA - HP 12 Cell Ultra Capacity Battery ADD \$169.00 |
| Option - Two | | | ED493AA#ABA - HP Car Adapter - ADD \$69 |
| Communication Options | | | |
| Wireless Card | | | Integrated 802.11 a/b/g/draft-n |
| Carrying Case Options | | | |
| Option - One | | | RR315AA - HP Universal Nylon Carrying Case - ADD \$39 |
| Option - Two | | | RR316AA - HP Executive Leather Carrying Case - ADD \$59 |
| Option - Three | | | RR317AA - HP Deluxe Nylon Backpack - ADD \$39 |
| Docking Station Options | | | |
| Option - One | | | KP080AA#ABA - HP Docking Station 120W - ADD \$200 |
| Other Upgrades | | | |
| Option - one | | | 3 yr NBD offsite with accidental damage UC279E ADD \$199 |
| Option - Two | | | PC766A - HP Security Lock - ADD \$39 |
| Option - Three | | | DC369A - USB/PS2 Optical 2-Button Scroll Mouse - ADD \$14.32 |