Dell™ OptiPlex™ 740
Tech Specs

	MINITOWER	DESKTOP	SMALL FORM FACTOR

CHIPSET	nVIDIA® Quadro® NVS 210S Chipset (North Bridge), nForce 430 (South Bridge)		
OPERATING SYSTEM	**Dell recommends:** Microsoft® Windows® XP Professional Microsoft ® Windows® XP Home Edition		Microsoft® Vista® Ultimate Microsoft® Vista® Business Microsoft® Vista® Home Basic
PROCESSOR	AMD Athlon™ 64 (up to 3800+ 2.4GHz, 512KB L2 cache) AMD Athlon™ 64 X2 Dual-Core (up to 5200+ 2.6GHz, 2 x 1MB L2 cache)		
NETWORK CONTROLLER	Integrated Broadcom® 5754 Gigabit* Ethernet LAN 10/100/1000 solution with Remote Wake Up and PXE support		
SYSTEMS MANAGEMENT	Broadcom Full ASF 2.0		

MEMORY

DIMM Slots	Four		
Type	Dual-channel* shared* DDR2 SDRAM system memory. Unbuffered, non-ECC DIMMs only		
Speed	667MHz or 800MHz		
Modules Types	512-MB, 1-GB, or 2-GB (667MHz only) supported memory modules and speeds may vary by chassis		
Minimum memory	Dual-channel: 1GB Single-channel: 512MB		
Maximum memory	8 GB (2-GB per channel)		
Bandwidth	533MHz: Up to 8.5 GB/s dual-channel 667MHz: Up to 10.7 GB/s dual-channel 800MHz: Up to 12.8 GB/s dual-channel		

DRIVE BAYS AVAILABLE

	MINITOWER	DESKTOP	SMALL FORM FACTOR
3 1/2 bay	One	One	One slim-line
5 1/4 bay	Two	One	One slim-line
Hard Drives Supported	Two	One	One

CONTROLLERS & INTERFACES

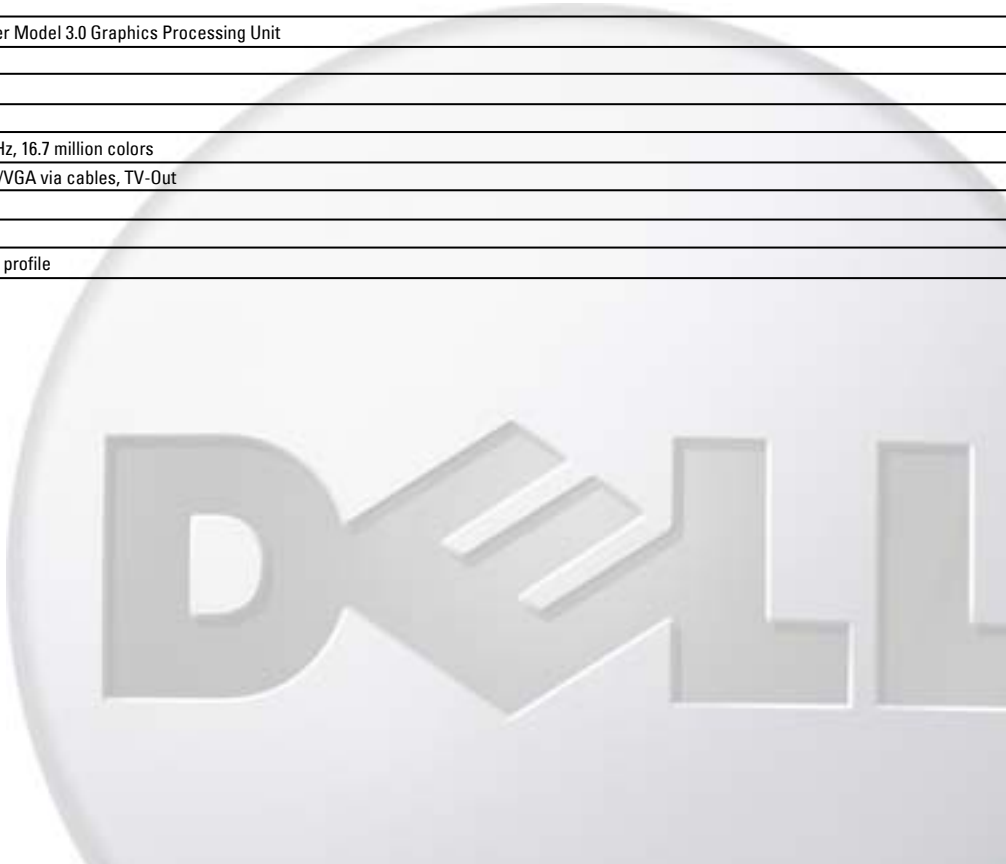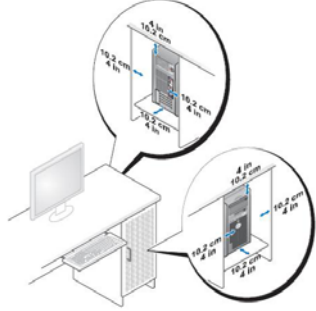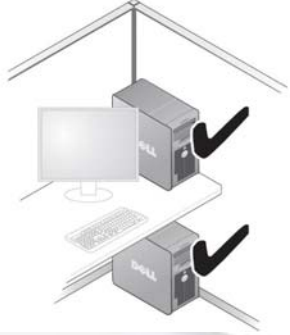|	MINITOWER	DESKTOP	SMALL FORM FACTOR
Connectors	Four SATA connectors Supporting one device each Two designated for hard drives Two designated for optical	Two SATA connectors Supporting one device each One designated for hard drive One designated for optical	
Drive Interfaces	SATA only drives	SATA only drives	Slim-line optical SATA drives

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HARD DRIVE OPTIONS			
Supported Types	Serial ATA 3.0Gb/s		
Available Drives	7200 RPM SATA 3.0Gb/s : 40GB, 80GB, 160GB, 250GB*		
	10K RPM SATA 3.0Gb/s : 80GB*		
SMART Technology	Smart III		
Transfer Rate	300 MB/s		
Hard Disk Encryption	None		
Partition Support	MS Windows XP Professional SP2: Support both FAT16 and FAT32. FAT32 will be the default configuration		
	MS Windows XP Home SP2: Support both FAT16 and FAT32.		
SYSTEM BOARD CONNECTORS			
Serial ATA	Four 7-pin connectors	Two 7-pin connectors	
PCIe x1	36-pin connector	None	
PCIe x16	164-pin connector		
PCI 2.3	124-pin connector		
DVI Adapter	36-pin connector		
Memory	240-pin connectors		
Floppy drive	34-pin connector		
PS2/Serial	24-pin connector		
Fan	5-pin connector		
Internal Speaker	5-pin connector		
Internal USB	6-pin connector		
Chassis intrusion switch	3-pin connector		
Power (12V)	4-pin connector		
Power	12-pin connector		
Battery	2-pin socket		
Processor	940-pin connector		
Front panel	40-pin connector		
STANDARD I/O PORTS			
USB 2.0	8 USB 2.0 ports (2 front, 5 rear, 1 internal)		
Ethernet Network (RJ45)	One, rear		
Serial Port	One, rear . Second is optional. (9-pin, 16550 compatible)		
Parallel Port	One, rear. (25-hole, bi-directional)		
Display Port	1 VGA Out, rear (15-hole)		
Stereo line-in	One minijack, rear		
Speakers, line-out	One minijack, rear		
Microphone-in	One minijack, front		
Headphone	One minijack, front		
EXPANSION BUS INFORMATION			
PCI 2.3	33 MHz		
PCI Express 1.0a	PCI Express x1: 5 Gbps (Available on Minitower chassis only)		
	PCI Express x16: 80 Gbps		
USB 2.0	480 Mbps		
SATA 2.0	3.0Gbps		
PCIe x1 Available Slots	One full-height	Not available	Not available
Connector Size	36 pins		
Data Bus	One bi-directional differential lane pair (2.5Gb/s per lane) 5Gb/s total		
Voltage	3.3V external operation (some pins 5V tolerant); 1.8V internal regulation		
Power	10 W maximum		
PCI Available Slots	Two full-height	Two low-profile Riser Options*: Dual-PCI Riser *OR* Combo x16/PCI Riser	One low-profile
Connector size	124 pins		
Data Bus	32Bit/33MHz		
Voltage	3.3V external operation (some pins 5V tolerant); 1.8V internal regulation		
PCIe x16 Available Slots	One full-height	One low-profile Riser Option*: Combo x16/PCI Riser	One low-profile
Connector Size	164 pins		
Data Bus	16 bi-directional differential lane pair (2.5Gb/s per lane) 80Gb/s total		
Voltage	12V		
Power	75 W maximum	25W maximum	

* One low profile PCI slot remains available on board when riser is installed

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Integrated nVIDIA® Quadro® NVS 210S

Graphics Core	Direct 9.0c Shader Model 3.0 Graphics Processing Unit
Graphics Core Processor Speed	425MHz
Memory	Between 64MB and 512MB of system memory may be allocated to support integrated graphics, depending on system memory size and other factors.
RAMDAC	300MHz RAMDAC for display resolutions up to and including 1920x1200 @ 75Hz
Max Resolution	1920x1200 @ 75Hz
Display Interface	VGA DB-15 (analog)
Dual Monitor Support	Yes (when used in conjunction with a DVI adapter card from Dell)
Display Rotation Support	No

DVI (Digital) Adapter Card

Card Type	PCI Express x16
Max Resolution	1920x1200 @ 75Hz
Display Interface	DVI-D (Digital)
Dual Monitor Support	Yes (when used in conjunction with integrated graphics)
	Supports Extended Desktop and Zoom Desktop using 2 display adapters
	Clone and Twin display capabilities
Display Rotation Support	No
Options	Full height or low profile

128MB ATI Radeon® X1300

Card Type	PCI Express x16
Graphics Core	Direct 9.0c Shader Model 3.0 Graphics Processing Unit
Graphics Core Processor Speed	425MHz
Memory	128MB
RAMDAC	Dual 400MHz
Maximum Resolution	1920 x 1200 @ 75Hz, 16.7 million colors
Display Interface	Single DVI-1 (VGA via included DVI to VGA adapter) and TV-out
Dual Monitor Support	No
Display Rotation Support	Yes
Options	Full height or low profile

256MB ATI Radeon® X1300 Pro

Card Type	PCI Express x16
Graphics Core	Direct 9.0c Shader Model 3.0 Graphics Processing Unit
Graphics Core Processor Speed	425MHz
Memory	256MB
RAMDAC	Dual 400MHz
Maximum Resolution	1920 x 1200 @ 75Hz, 16.7 million colors
Display Interface	Dual monitor DVI/VGA via cables, TV-Out
Dual Monitor Support	Yes
Display Rotation Support	Yes
Options	Full height or low profile

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INTEGRATED AUDIO			
Type	Sigmatel 9200 HAD Codec		
Stereo conversion	16-bit analog-to-digital; 20-bit digital-to-analog		
Sampling Rate	48KHz		
POWER			
DC Power Supply Wattage	305W	280W	275W
Power Efficiency	76%	76%	76%
Input (max)	135Vrms/9.0Arms 264Vrms/4.5Arms	135Vrms/6.5Arms 264Vrms/4.5Arms	135Vrms/6.0Arms 264Vrms/3.0Arms
Output (max)	12.6V/18A 5.25V/22A	12.6V/16A 5.25V/15A	12.6V/17A 5.25V/18A
	3.465V/22A -13.2V/1A 5.25V/4A	3.465V/10A -13.2V/0.5A 5.25V/4A	3.465V/5A - 13.2V/0.5A 5.25V/4A
Voltage	90 to 135V and 180 to 265V at 50 to 60Hz		
Manual selection / Auto-sensing	Manual Selection		
Backup battery	3-V CR2032 lithium coin cell		
POWER MANAGEMENT			
ACPI Wake-Up Event	System Wakes From		
Power Button	Suspend or soft-off		
RTC Alarm	Suspend or soft-off		
Wake On LAN (w/NIC)	Suspend or soft-off		
PME	Suspend or soft-off		
Serial Port Ring	Suspend or soft-off		
USB	Suspend only		
Keyboard	Suspend only		
Mouse	Suspend only		
CHASSIS PARAMETERS			
Height	16.10" (40.89 cm)	15.65" (39.75 cm)	12.45" (31.63 cm)
Width	7.36" (18.69 cm)	4.59" (11.66 cm)	3.65" (9.26 cm)
Depth	17.52" (44.5 cm)	14.25" (36.19 cm)	13.4" (34 cm)
Volume	33L	15.7L	9.97L
Weight	27.2 lb (12.34 kg)	23.1 lb (10.5 kg)	16.4 lb (7.4 kg)
PACKAGING PARAMETERS			
Height	22.4" (56.9cm)	20.6" (52.3cm)	20.88" (53 cm)
Width	22.2" (56.4cm)	20.3" (51.6cm)	19.38" (49.2cm)
Depth	14.5" (36.8cm)	12.0" (30.5cm)	10.63" (27 cm)

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ENCLOSURE & VENTILATION REQUIREMENTS

Enclosure Ventilation — If your enclosure has doors, they need to be of a type that allows at least 30% airflow through the enclosure (front and back).

Enclosure Minimum Clearance — Leave a 10.2 cm (4 in.) minimum clearance on all vented sides of the computer to permit the airflow required for proper ventilation.

Recommended Enclosure — Do not install your computer in an enclosure that does not allow airflow. This restricts the airflow and impacts your computer's performance, possibly causing it to overheat.

Open Desk Minimum Clearance — If your computer is installed in a corner, on a desk, or under a desk, leave at least 5.1 cm (2 in.) clearance from the back of the computer to the wall to permit the airflow required for proper ventilation.

SECURITY

Software Features — Wave EMBASSY® Trust Suite, Setup/BIOS Password, I/O Interface Security

Physical Features — Trusted Platform Module 1.2, Chassis lock loop, chassis intrusion switch (optional)

STANDARDS — TCO 05, Blue Angel, Green PC, Energy Star, WEEE, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA99, SABS, SASO, TUV, UL, VCCI

BIOS Factory Defaults (All Chassis)

Diskette Drive	Internal	Serial Port #1	Auto	Auto Power On	Off
Drive 0: SATA - 0	On	Video Memory Size	64MB	Auto Power Time	12:00 am
Drive 1: SATA - 1	On	HDD Acoustic Mode	Bypass	Low Power Mode	Off
SMART Reporting	Off	Admin Password	Not Set	Remote Wake Up	Off
Integrated NIC	On	System Password	Not Set	Cool and Quiet	On
Integrated Audio	On	Drive 0 Password	Not Set	Suspend Mode	S3
USB Controller	On	Drive 1 Password	Not Set	ASF Mode	Off
Rear Triple USB	On	Password Changes	Unlocked	Fast Boot	On
Rear Dual USB	On	Chassis Intrusion	On Silent	Numlock Key	On
Front USB	On	TPM Security	Off	POST Hotkeys	Setup & Boot Menu
LPT Port Mode	PS/2	No Execute	On	Keyboard Errors	Report
LPT Port Address	378	AC Recovery	Off	Primary Video	Auto

DISPLAYS

CRT	17" E773c/s (16.0" Viewable Image Size)
Flat Panel Analog	15" E157FPb TFT Flat Panel 1024 x 768 17" E177FPb TFT Flat Panel 1280 x 1024 19" E197FPb TFT Flat Panel 1280 x 1024
UltraSharp™ Digital Flat Panel Adjustable Stand, VGA/DVI	UltraSharp™ 17" 1708FP TFT Flat Panel 1280 x 1024 UltraSharp™ 19" 1908FP TFT Flat Panel 1280 x 1024 UltraSharp™ 20" 2007FP TFT Flat Panel 1600 x 1200
UltraSharp™ Widescreen Digital Flat Panel	UltraSharp™ 20" 2007WFP TFT Flat Panel 1680 x 1050 UltraSharp™ 24" 2407WFP TFT Flat Panel 1920 x 1200 UltraSharp™ 27" 2707WFP TFT Flat Panel 1920 x 1200

PERIPHERALS

Keyboard Options	Dell™ Enhanced QuietKey USB, Enhanced Performance USB, Dell™ Bluetooth Wireless Keyboard and Mouse, Smart Card Keyboard USB
Mouse	Dell™ USB two-button and Dell™ USB optical two-button scroll
Speaker Options	Internal Dell™ Business Audio Speaker Dell™ A225 Speakers Dell™ A525 30 Watt 2.1 three piece Stereo Speakers with Subwoofer Dell™ AS501 Sound Bar, for all UltraSharp™ Flat Panel displays Dell™ AS501PA Sound Bar, for all Entry Flat Panel displays
Removable Media	USB Floppy Drive, CD-ROM
Storage Devices	CD-RW/DVD Combo, DVD-ROM* and DVD+/-RW*
USB Storage Keys	Dell™ USB Memory Key 128MB, 256MB, and 512MB* USB 2.0 full speed compliant and bootable
Wireless Adapter	Dell™ Wireless 1450 (802.11 a/b/g) WLAN USB 2.0 DT Adapter

- Between 64MB and 512MB of system memory may be allocated to support integrated graphics, depending on system memory size and other factors.
- Dual-channel memory requires 2 each of the same capacity memory DIMMs.
- For writeable storage devices, MB means 1 million bytes; total accessible capacity varies depending on operating environment
- Desktops configured with 4GB of memory or more, the total amount of usable memory available will be less than 4 GB, depending on the actual system configuration. To utilize more than 4GB of memory requires a 64-bit OS.
- For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating system and will be less.
- DVD+/-RW Drives: 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.
- Dell Limited Warranty: For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit www.dell.com/warranty.
- On Site Service: Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.