

Dell™ OptiPlex™ 745

Tech Specs



			
MINITOWER	DESKTOP	SMALL FORM	ULTRA SMALL FORM FACTOR

CHIPSET	Intel® Q965 (ICH8) Express Chipset			
OPERATING SYSTEM	Dell Supports: Microsoft® Windows® XP Professional Microsoft® Windows® XP Home Edition			
PROCESSOR	Intel® Core™ 2 Duo 1066MHz FSB Socket T with Dual Core technology XD, EM64T, 2MB and up to 4MB L2 cache, EIST and VT (E6000 series) Intel® Pentium® D 800MHz FSB Socket T with Dual Core technology XD, EM64T, 2x2MB L2 cache, EIST, and VT on 950/960 (900 series) Intel® Pentium® D 800MHz FSB Socket T with Dual Core technology XD, EM64T, 2x1MB L2 cache (800 series) Intel® Pentium® 4 800MHz FSB Socket T with HT, XD, EM64T, and 1MB L2 cache (500 series) Intel® Celeron® D 533 MHz FSB Socket T with XD and EM64T (300 series)			
NETWORK CONTROLLER	Broadcom® 5754 Gigabit Ethernet LAN solution 10/100/1000 Ethernet with Remote Wake Up and PXE support			
SYSTEMS MANAGEMENT	Broadcom Full ASF 2.0			
MEMORY				
DIMM Slots	Four	Four	Four	Two
Type	Dual channel shared DDR2 SDRAM system memory. Unbuffered, non-ECC DIMMs only			
Speed	533MHz (4-4-4 latency), 667MHz (5-5-5 latency), 800MHz (6-6-6 latency)			533/667 MHz memory
Modules Types Supported	512-MB, 1-GB, or 2-GB (800MHz not available in 2GB DIMM)			
Minimum memory	Dual-channel: 1GB Single-channel: 512 MB			
Maximum memory	8 GB (2GB per channel)			4 GB (2GB per channel)
Bandwidth	533MHz: Up to 8.5 GB/s in dual channel mode 667MHz: 10.7 GB/s with dual channel 800MHz: 12.8 GB/s with dual channel			*USFF does not support 800MHz
DRIVE BAYS AVAILABLE				
3 1/2 bay	One	One	One slim-line	0
5 1/4 bay	Two	One	One slim-line	0
D-bay (notebook modules)	0	0	0	One
Hard Drives Supported	Two	One	One	One
INTERFACES & CONNECTORS				
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	Two SATA connectors Supporting one device One designated for hard drive One designated for optical	One SATA connector Supporting one device Designated for hard drive
Drive Interfaces	SATA only drives	SATA only drives	Slim-line optical PATA drive	D-mod PATA drive

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HARD DRIVE OPTIONS					
Supported Types	Serial ATA or Serial ATA 3.0				
Available Drives	7200RPM SATA 3.0Gb/s: 80GB, 160GB, 250GB ⁴ 7200RPM 10K RPM SATA 1.5Gb/s: 80GB				
SMART Technology	SMART III				
Burst Transfer Rate	300 Mbit/s				
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 a				
SYSTEM BOARD CONNECTORS					
Serial ATA	Four 7-pin connectors	Two 7-pin connectors	Two 7-pin connectors	One 7-pin connector	
Floppy drive	34-pin connector				
Serial	12-pin connector, optional second serial port card (not available on USFF)				
Fan	5-pin connector				
PCI 2.3	120-pin connector				
Front panel	40-pin connector				
STANDARD I/O PORTS					
Display Port	* Front ports may be disabled 1 VGA Out (15-hole)				DVI-I Out
USB 2.0	Two front and six rear				Two front and five rear
Serial Port	One, rear.				One rear
Optional Adapters	One, rear. 12-pin proprietary connector for PS/2 adapter or a second serial port.				Not available on USFF
Internal USB	10-pin connector for optional media bay device				
Parallel Port	One, rear (25-hole, bi-directional)				
Ethernet Network	One, rear (RJ45)				
Stereo line-in	One minijack, rear				
Speakers, line-out	One minijack, rear				
Microphone-in	One minijack, front				
Headphone	One minijack, front				
COMPUTER INFORMATION					
System Clock	Utilizes the CK-505 clock synthesizer chip, which incorporates Intel specifications for clock generation				
Data bus width	64 bits				
Address bus width	36 bits				
DMA channels	Eight				
Interrupt levels	24				
EXPANSION BUS INFORMATION					
PCI 2.3	PCI: 33 MHz				
PCI Express 1.0a	PCI Express x1: 5 Gbps PCI Express x16: 80 Gbps				
SATA 1.0a and 2.0	SATA: 1.5 and 3.0 Gbps				
USB 2.0	USB: 480 Mbps				
PCI-E x1	Available slots	One full height	Not available	Not available	Not available
	Connector Size	36 pins			
	Data Bus	One bi-directional differential lane pair (2.5Gbs per lane) 5Gbs total			
	Voltage	3.3V			
	Power	10 W (x1)			
PCI	Available slots	Two Full-Height	Two Low-Profile on board Riser options: * - Dual PCI Riser - Combo x16/PCI Riser	One Low-Profile	Not available
	Connector size	120 pins			
	Data Bus	32Bit/33MHz			
	Voltage	3.3 Volt External Operation (some pins 5 Volt Tolerant); 1.8V internal regulation			
PCI Express x16	Available slots	One Full-Height	One Low-Profile Riser option: * Combo x16/PCI Riser	One Low-Profile	Not available
	Connector Size	164 pins			
	Data Bus	16 bi-directional differential lane pair (2.5Gbs per lane) 80Gbs total			
	Voltage	12V			
	Power	75 W (x16) maximum			
* One low-profile slot remains available on board when riser installed					

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Integrated Intel Graphics Media Accelerator 965					
Graphics Core	Intel® Graphics Media Accelerator 3000				
Memory	None dedicated. Uses up to 256MB shared with system memory				
Maximum Resolution	Supports 640 x 480 up to 1920 x 1200 (refresh rates and additional resolutions are dependant on display)				
RAMDAC	400MHz, 24-bit				
Display Interface	VGA DB-15 (analog)			DVI-I native. Optional Y-dongle Cable provides VGA output.	
Dual Monitor Support	Yes, in conjunction with discrete graphics card			Yes, with dual dongle	
Display Rotation Support	Yes				
Core Processor Speed	667MHz				
3D Setup & Render Engine	Supports D3D and OGL Pixilation Rules				
Controller clock speed (MHz)	Core Frequency: 667MHZ sDVO Frequency: 270MHz				
DVI (Digital) Adapter Card					Not available Integrated graphics only DVI-I output
Memory	Uses integrated graphics. No memory dedicated				
Card Type	Intel digital video output via PCI Express				
Maximum Resolution	1920 x 1200 @ 60 Hz & 16.7 million colors				
Display Interface	DVI-D				
Dual Monitor Support	Extended Desktop using two display adapters Clone and Twin display capabilities				
Options	Full height or low profile				
Details	Uses Integrated Graphics—Intel digital video output via PCI Express				
128MB ATI Radeon® X1300					Not available Integrated graphics only DVI-I output
Memory	128MB DDR SDRAM				
Card Type	PCI Express X16				
Maximum Resolution	1920 x 1200 @ 75 Hz & 16.7 million colors				
RAMDAC	Dual 400MHz				
Display Interface	Single DVI-I (VGA via included DVI to VGA Adapter) and S-Video TV-Out				
Dual Monitor Support	No				
Display Rotation Support	Yes				
Options	Full height or low profile				
256MB ATI Radeon™ X1300 Pro					Not available Integrated graphics only DVI-I output
Memory	256MB DDR SDRAM				
Card Type	PCI Express X16				
Maximum Resolution	1920 x 1200 @ 75Hz & 16.7 million colors				
RAMDAC	Dual 400MHz				
Display Interface	Dual VGA (DB-15) or DVI via optional DMS-59 cables				
Dual Monitor Support	Yes				
Display Rotation Support	Yes				
Options	Full height or low profile				
AUDIO					
Type	ADI 1983 High Definition Audio				
Stereo conversion	20-bit analog-to-digital; 20-bit digital-to-analog				

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POWER					
DC Power Supply - Wattage		305W	280W	275W	220W (External power brick)
Power Efficiency		76%	76%	76%	80%
Heat Dissipation *		1041 BTU/hr	956 BTU/hr	939 BTU/hr	751 BTU/hr
		* NOTE: Heat dissipation is calculated based upon the power supply rating. Does not include peripherals.			
Voltage - Manual selection		Manual selection power supplies: 90 to 135 V at 50/60 Hz; 180 to 265 V at 50/60 Hz			External - Auto sensing
Backup battery		3-V CR2032 coin cell, Lithium ion			
POWER MANAGEMENT					
ACPI Wake-Up Event		System Wakes From			
Power Button		Suspend or soft-off			
RTC Alarm		Suspend or soft-off			
Wake On LAN		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 DIMENSIONS					
Height		41.4 cm (16.3 inches)	11.4 cm (4.5 inches)	9.26 cm (3.65 inches)	26.4 cm (10.37 inches)
Width		18.5 cm (7.3 inches)	39.9 cm (15.7 inches)	31.37 cm (12.35 inches)	8.9 cm (3.5 inches)
Depth		43.8 cm (17.3 inches)	35.3 cm (13.9 inches)	34.03 cm (13.4 inches)	25.3 cm (9.95 inches)
Weight		12.34 kg (27.2 lb)	10.4 kg (23 lb)	7.4 kg (16.4 lb)	4.5 kg (10 lb)
Volume		33 Liters	15.7 Liters	9.97 Liters	6 Liters
PHYSICAL ATTRIBUTES					
Temperature					
Operating		10° to 35°C (50° to 95°F)			10° to 30°C (50° to 86°F)
Storage		-40° to 65°C (-40° to 149°F)			
Relative humidity		20% to 80% (non-condensing)			
Maximum vibration					
Operating		0.25 G at 3 to 200 Hz at 0.5 octave/min			
Storage		0.5 G at 3 to 200 Hz at 1 octave/min			
Maximum shock					
Operating		Bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 inches/sec)			
Storage		27-G faired square wave with a velocity change of 508 cm/sec (200 inches/sec)			
Altitude					
Operating		-15.2 to 3048 m (-50 to 10,000 ft)			
Storage		-15.2 to 10,668 m (-50 to 35,000 ft)			

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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.			
STANDARDS		TC099, Blue Angel, Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA99, SABS, SASO, TCO, TUV, UL, VCCI, USB 2.0, WEEE			
BIOS Factory Defaults (All Chassis)					
BIOS address	F0000h	USB front panel	On	Low power mode	Off
BIOS chip (NVRAM)	8Mb	Module bay	On	Password	Disabled
Setup Option	Default Factory Value	Serial #1 Port	Auto	POST hot keys	Setup & Boot Menu
Parallel Port mode	PS/2	Keyboard Num lock	Report	SATA drives	On
Parallel Port address	378	Keyboard error report	On	Floppy	Internal
Wake on LAN	Off	Onboard Video	Auto	Limit CPUID	Off
EIST	Off	HD Acoustic mode	Bypass	ASF Settings	Off
Onboard Audio	On	Onboard Video buffer	8MB	HD Password	Disabled
Onboard Modem	On	Primary Video	Add-in	Hyper-threading	On
Flex bay	On (no boot)	Suspend mode	S3	Auto Power on	Off
Execute Disable	On	Chassis intrusion	On	Auto Power time	12:00am
Onboard NIC	On (without PXE)	TPM	Off	SERR	On
PS2 Mouse	On	Smart drive error report	Off	Fast Boot	On
Onboard USB	On	A/C recovery	Off		

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DISPLAYS	CRT	17" E773s (16.0" viewable) Conventional CRT 17" E773MM (16.0" viewable) Multimedia CRT			
	Dell Flat Panel Analog	15" E157FP Flat Panel 17" E177FP Flat Panel 19" E197FP Flat Panel			
	Dell UltraSharp™ Digital Flat Panel Adjustable Stand, VGA/DVI	17" UltraSharp™ 1707FP 17" UltraSharp™ 1707FPV 19" UltraSharp™ 1907FP 19" UltraSharp™ 1907FPV 20" UltraSharp™ 2007FP			
	Dell Widescreen UltraSharp™ Digital Flat Panel	20" Widescreen UltraSharp™ 2007FPW 24" Widescreen UltraSharp™ 2407FPW			
	Dell All-In-One UltraSharp™ Solution	None			UltraSharp™ 1706FP All-In-One
PERIPHERALS	Keyboard	Dell USB Keyboard, No Hot Keys Dell USB Enhanced Multimedia Keyboard Smart Card Reader USB Keyboard Bluetooth Keyboard			
	Mouse	Dell USB 2-Button Entry Mouse with Scroll, Black Dell USB 2-Button Optical Premium Mouse with Scroll, Black Bluetooth Mouse			
	Audio	Internal Dell Business Audio Speaker Dell A225 Stereo Speakers Dell A525 Speakers Dell AS501 Sound Bar - UltraSharp Flat Panel Attachable Speakers Dell AS501PA Sound Bar - Entry FP Attachable Speakers			
	Optical Storage Drive	48X CD-ROM SATA 16X DVD-ROM SATA 48X32 CDRW/DVD Combo SATA 16X DVD+/-RW SATA		24X Slimline CD-ROM Drive 8X Slimline DVD-ROM 24X Slimline CDRW/DVD Combo 8X Slimline DVD+/-RW	
	Additional Storage	3.5" 1.44MB FDD		Slimline 1.44MB FDD	
		USB 2.0 Memory Key: 256MB, 512MB Dell 13 in 1 USB Media Card Reader			
	Communications	Integrated Broadcom 10/10/1000Mb LOM Dell V.92 PCI Data/Fax Controllerless Modem Broadcom NetXtreme 10/100/1000 PCIe Gigabit Controller Card (Full Height or Low-profile) Dell Wireless 1450 (802.11 a/b/g) WLAN USB 2.0 DT Adapter, 13 Channel			



1. The term Gigabit Ethernet does not connote an actual operating speed of 1 GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
2. Up to 256MB of system memory may be allocated to support graphics, depending on system memory size and other factors.
3. The total amount of usable memory available will be less than 4 GB, depending on the actual system configuration
4. For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating system and will be less.
5. Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility.
6. For a copy of Dell's guarantees or limited warranties, please write Dell USA LP., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit www.dell.com/us/en/gen/services/service_service_plans.htm.
7. 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.

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