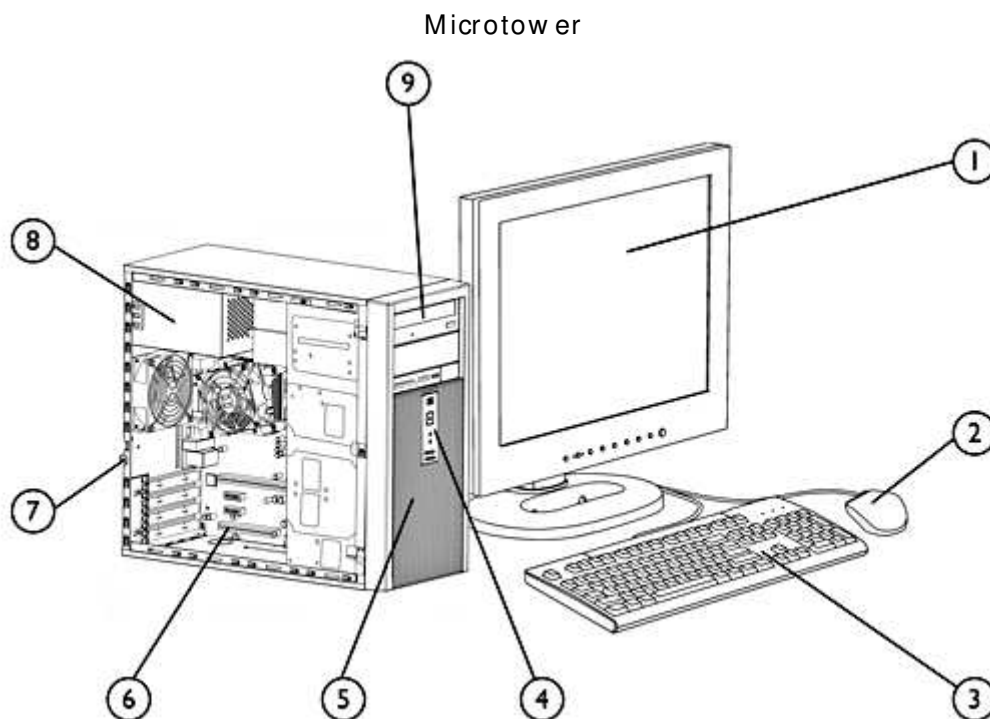


Overview

HP Compaq dx7400 Microtower Business PC

HP recommends
Windows Vista® Business



1. Monitor (sold separately)

2. PS/2 Scroll Mouse

3. HP Standard Keyboard

4. (2) USB 2.0 ports, audio ports

5. (2) internal 3.5" drive bays

6. (1) full-height PCI 2.3 slot, (2) PCIe x1 slots,
(1) PCIe x16 slot

7. (6) USB 2.0 ports, (1) serial port, (1) optional second
serial port, (1) parallel port, (2) PS/2, (1) RJ45, (1)
VGA, (1) audio in – (1) audio out – (1) MIC

8. 300-watt max power supply

9. (2) external 5.25" drive bays for optional optical drives;
(1) external 3.5" drive bay for optional media reader or
diskette drive

Overview

At A Glance

- Support for Intel® Core™ 2 Duo and Core™ 2 Quad processors, Intel Pentium® dual-core processors, Intel Celeron® processors
- Choice of operating systems:
 - Genuine Windows Vista Business 32
 - Genuine Windows Vista Home Basic 32
 - Genuine Windows XP Professional
 - Red Flag Linux (China Only)
 - FreeDOS (not available in China)
- Intel Q33 Express Chipset
- Intel I/ O Controller Hub 9 (ICH9)
- Intel Graphics Media Accelerator
- PCI Express I/ O bus
- Serial ATA controller
- Broadcom NetLink BCM5786 GbE Network Connection
- Choice of hard drives and optical drives
- DDR2 SDRAM system memory
- Protected by HP Services. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Standard Features and Configurable Components

Processor and Speed

One of the following

Intel Celeron Processors:

Intel Celeron 420 Processor (1.60-GHz, 512-KB L2 cache, 800-MHz FSB)

Intel Celeron 430 Processor (1.80-GHz, 512-KB L2 cache, 800-MHz FSB)

Intel Celeron 440 Processor (2.00-GHz, 512-KB L2 cache, 800-MHz FSB)

Intel Pentium dual-core Processors:

Intel Pentium E2140 Processor (1.6-GHz, 1-MB L2 cache, 800-MHz FSB)

Intel Pentium E2160 Processor (1.8-GHz, 1-MB L2 cache, 800-MHz FSB)

Intel Core 2 Duo Processors:

Intel Core 2 Duo E4400 Processor (2.0-GHz, 2 MB L2 cache, 800-MHz FSB)

Intel Core 2 Duo E4500 Processor (2.13-GHz, 2 MB L2 cache, 800-MHz FSB)

Intel Core 2 Duo E6320 Processor (1.86-GHz, 4 MB L2 cache, 800-MHz FSB)

Intel Core 2 Duo E6420 Processor (2.13-GHz, 4 MB L2 cache, 800-MHz FSB)

Intel Core 2 Duo E6550 Processor (2.0-GHz, 4 MB L2 cache, 1333-MHz FSB)

Intel Core 2 Duo E6750 Processor (2.66-GHz, 4 MB L2 cache, 1333-MHz FSB)

Intel Core 2 Duo E6850 Processor (3.0-GHz, 4 MB L2 cache, 1333-MHz FSB)

Intel Core 2 Quad Processors:

Intel Core 2 Quad Q6600 Processor (2.403-GHz, 8 MB L2 cache, 1066-MHz FSB)

NOTE: Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

Operating Systems and Application Software (availability varies by region)

Genuine Windows Vista Business 32*

Genuine Windows Vista Home Basic 32*

Genuine Windows XP Professional SP3

Red Flag Linux (China Only)

Free DOS (not available in China)

* Certain Windows Vista product features require advanced or additional hardware. See <http://www.microsoft.com/windowsvista/getready/hardwareregs.mspx> and <http://www.microsoft.com/windowsvista/getready/capable.mspx> for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit <http://www.windowsvista.com/upgradeadvisor>.

Microsoft Office 2007 Basic

Microsoft Office 2007 Small Business

Microsoft Office 2007 Professional

Microsoft Works 8.5

Roxio Easy Media Creator 9.1**

Intervideo WinDVD Player**

Symantec AntiVirus 10

Sun Java Runtime Environment

Google Toolbar

** Supporting software available with certain optical drive configurations

Standard Features and Configurable Components

Hard Drives	80-GB Serial ATA 3.0-Gb/s Hard Drive (7200 rpm)
	160-GB Serial ATA 3.0-Gb/s Hard Drive (7200 rpm)
	250-GB Serial ATA 3.0-Gb/s Hard Drive (7200 rpm)

System Memory

512-MB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC (1 x 512-MB)
 1-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC (1 x 1-GB)
 2-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC (2 x 1-GB)
 3-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC (3 x 1-GB)
 4-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC (2 x 2-GB)
 512-MB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (1 x 512-MB)
 1-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (1 x 1-GB)
 1-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (2 x 512MB)
 2-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (1 x 2-GB)
 2-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (2 x 1-GB)
 4-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (2 x 2-GB)
 4-GB DDR2 Synch DRAM PC2-6400 (800-MHz) Non-ECC (4 x 1-GB)

Storage –

One or more of the following (see Storage section below)

Diskette Drive
 1.44-MB Diskette Drive
 Media Reader
 HP 16-in-1 Media Reader and additional USB 2.0 port
 Optical Drives (Serial ATA)
 SATA CD-ROM drive (available in APJ only; not supported by Windows Vista)
 SATA DVD-ROM Drive
 SATA CD-RW/ DVD-ROM Combo Drive (not supported by Windows Vista)
 SATA SuperMulti LightScribe DVD Writer Drive

Input Devices

Keyboard – One of the following
 HP PS/2 Standard Keyboard
 HP USB Standard Keyboard
 Mouse – One of the following
 PS/2 2-Button Scroll Mouse
 PS/2 2-Button Optical Scroll Mouse
 USB 2-Button Optical Scroll Mouse

Audio

Realtek ALC888 High Definition audio codec
 3D audio compliant with AC'97 Rev. 2.3 and HD Audio compatible



Standard Features and Configurable Components

Internal PC speaker

Communication	Intel PRO/ 1000 PT Gigabit PCIe Adapter (full height) Broadcom NetLink BCM5786 GbE Network Connection Agere 56K PCI Modem
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Graphics	Intel Graphics Media Accelerator 3100 NVIDIA GeForce 8400 GS Dual Head GPU NVIDIA GeForce 8400 GS Single Head GPU HP ADD2 SDVO PCIe DVI/ TV-Out Adapter
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Miscellaneous	HP FireWire / IEEE 1394 PCI Card (full height)
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QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

Base Unit	• Micro ATX microtower chassis, including power supply and front bezel • Five (5) drive bays and four expansion slots • Microsoft operating system CD • Active type heatsink • 92 x 92 x 25 mm chassis fan • System board with Intel Q33 Express chipset, Intel I/O Controller Hub 9 (ICH9), Broadcom NetLink BCM5786 GbE Network Connection, Intel GMA graphics, and Realtek audio, 1 full-height PCI 2.3 slot, 2 PCI Express x1 slots, 1 PCI Express x16 slot, 4 DDR2 DIMM memory slots • (4) Serial ATA data connectors • Product documentation on CD • HP system restore CD • Power cord
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Slots	PCI	One (1) full-height PCI 2.3 slot on PCA Two (2) full-height PCI Express x1 slots on PCA One (1) full-height PCI Express x16 slot on PCA (for graphic cards)
	Memory Expansion	Four (4) DDR2 SDRAM DIMM slots (8 GB maximum memory support)

Bays	Internal	Two (2) 3.5"
	External	Two (2) 5.25"
		One (1) 3.5"

USB Support	EHCI high-speed USB 2.0 controller	
	Two (2) front ports; Six (6) rear ports, Two (2) internal ports on motherboard	

Interfaces (Legacy)	One (1) parallel port	
	One (1) serial port	
	One (1) optional second serial port	
	One (1) PS/2 keyboard port	
	One (1) PS/2 mouse port	
	One (1) analog VGA video port	
	One (1) line in; one (1) line out; one (1) mic in	
	One (1) RJ45 network port	

Weight & Dimensions	Chassis Dimensions (H x W x D)	13.90 x 6.89 x 16.38 in (353 x 175 x 416 mm)
	Packaged Dimensions (L x W x H)	22.25 x 19.63 x 16.31 in (565.15 x 498.5 x 414.3 mm) (NA) 21.10 x 19.53 x 15.008 in (536.0 x 496.0 x 383.0 mm) (EMEA)
	System Weight	21.16 lb (9.6 kg)
	Shipping Weight	30.86 lb (14.0 kg)



QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

Technology and Features	Memory Type	PC2-5300 DDR2 SDRAM (667-MHz) non-ECC or PC2-6400 DDR2 SDRAM (800MHz) non-ECC Up to 4 GB system memory standard Up to 8-GB system memory supported	
	Hard Drive Interfaces Supported	Serial ATA	
Chassis	Front Panel	Power button Power On LED HDD Activity LED	
	Cooling Solutions Supported	Power Supply Fan (variable speed) Active heatsink (variable speed) Chassis fan (variable speed)	
	Slots Supported	Four (4) full-height expansion slots	
	Front I/ O	Two (2) USB 2.0 ports	
	Rear I/ O	Standard Micro ATX I/ O connectors, including six (6) USB 2.0 ports	
	Drive Bays	Two (2) 5-1/ 4” external One (1) 3-1/ 2” external Two (2) 3-1/ 2” internal	
	Internal Speaker	Standard	
	Security	Padlock loop Kensington Lock Support	
	Power Supply	300-watt ATX Power Supply – PFC	
	Unit Environment and Operating Conditions	General Unit Operating Guidelines	
- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range. - Leave a 4 in (10.2 cm) clearance on all vented sides of the computer to permit the required airflow. - Never restrict airflow into the computer by blocking any vents or air intakes. - Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air. - Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow. - If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.			
Temperature Range		Operating	50° to 95° F (10° to 35° C)
		Non-operating	-22° to 140° F (-30° to 60° C)
Relative Humidity		Operating	10% to 90% (non-condensing at ambient)



QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

	Non-operating	5% to 95% (non-condensing at ambient)
Maximum Altitude	Operating	10,000 ft (3048 m)
(unpressurized)	Non-operating	30,000 ft (9000 m)

NOTE: Operating temperature is de-rated 1.0 deg C per 1000 ft (300 m) to 10,000 ft (3000 m) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/ Hr. The upper limit may be limited by the type and number of options installed.

System Board	Processor	Socket T; LGA775 industry standard Micro ATX form factor Support single Intel Core 2 Duo and Core 2 Quad, Pentium dual-core, or Celeron processors
	PWM	Intersil 6312 3 phase
	Chipset	Intel Q33 Express Intel I/ O Controller Hub 9 (ICH9)
	Super I/ O	W83627DHG
	Front Side Bus Frequency	533/ 800/ 1066/ 1333 MHz
	Memory	DDR2 SDRAM 4 x DIMM slots
	Clock Generator	CY505YC56DT
	Integrated Graphics	Intel Graphics Media Accelerator (GMA)
	Audio	Realtek ALC888 HD Audio compatible codec with two channel audio 3D audio compliant with AC'97 rev. 2.3
	LOM	Broadcom NetLink BCM5786 GbE Connection
	Expansion Slots	1 x PCI 2.3 slot 2 x PCI Express x1 slots 1 x PCI Express x16 slot Four Serial ATA interfaces
	BIOS	SPI FLASH ROM
	Industrial Standard	PCI 2.3 compliant USB 2.0
	Rear Side I/ O Ports	1 x PS/ 2 keyboard port 1 x PS/ 2 mouse port 6 x USB 2.0 ports 1 x RJ45 10/ 100 port 1 x serial port 1 x optional second serial port 1 x parallel port 1 x DB 15-pin analog VGA port 3 x audio ports
	On Board I/ O	1 x ATX power connector



QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

Interfaces	1 x +12V power connector
	1 x Floppy connector
	1 x Front panel connector, Switch, LED (ON/ Flash/ OFF)
	2 x Fan headers for CPU, chassis, with voltage/ fan speed control
	1 x header to support 2 USB 2.0 ports at front side
	1 x header to support USB media reader
	1 x serial header to support optional second serial port
Board Size	Micro-ATX, PCB Size: 9.6 x 9.0 in (24.38 x 22.86 cm) 4-layer PCB with green color
Additional Features	Bootable without keyboard, mouse or monitor
	Keyboard/ mouse/ USB wake up
	Support S3, S4 and S5
	ACPI status
	Hardware monitor capability CPU fan speed control

Network Interface	Broadcom NetLink BCM 5786 GbE Network Connection
Hardware Highlights	PCI Express interface
Features	10-Mbps, 100-Mbps and 1000-Mbps operation Intel PRO/ 1000 PT Gigabit PCIe Adapter
Hardware Highlights	PCI Express interface
Features	10-Mbps, 100-Mbps and 1000-Mbps operation

Wireless	Wireless A+G PCI Card (full height bracket)
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Power Supply	• ATX Power Supply – Passive PFC • Passive Power Factor Correction (PFC) – with line switch set to 230V – No PFC in 115V line switch position • 90 to 140VAC, or 180 to 264VAC operating voltage range • 100 to 127VAC, or 200 to 240VAC rated voltage range • 50-60 Hz rated line frequency • 47-63 Hz operating line frequency range • 300 watt maximum rated power • 80-mm power supply fan – variable speed for optimum acoustics
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Power Conservation 'Energy Saver'	• APM 1.2 support • Screen blanking • Hard drive 'Idle' mode • System Idle mode • ~2 watt power consumption in ES mode – suspend to RAM (S3) (instantly available PC)
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QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

- Processor/ Cache memory power-down (S3)

System

Environmental Specs

- Values are subject to change without notification and are for reference only.
- Performance of system, options, and ancillary equipment will vary depending on the system configuration.
- Levels presented do not account for non-HP/ Compaq installed hardware.

Ambient Air Temperature	Operating	50° to 95°F (10° to 35°C) at sea level with an altitude de-rating of 1.0°C per every 1000 ft (300 m) above sea level to a maximum of 8000 ft (2500 m), no direct sustained sunlight. Maximum rate of change is 77°F/ Hr (25°C/ Hr). The upper limit may be limited by the type and number of options installed.
	Storage	-22° to 140°F (-30° to 60°C) – Maximum rate of change: 410°F/ Hr (210°C/ Hr).
Humidity	Operating	10% to 90% relative humidity (Rh), 86°F (30°C) maximum wet bulb temperature, non-condensing
	Storage	10% to 95% relative humidity (Rh), 101.66°F (38.7°C) maximum wet bulb temperature, non-condensing
Altitude	Operating	0 to 10,000 feet (0 to 3048 meters) – This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 1,000 ft/ min (304.8 m/ min).
	Non-Operating	0 to 30,000 feet (0 to 9,144 meters) – Maximum allowable altitude change rate is 1200 ft/ min (365.76 m/ min).
Shock	Listed are the levels of shock the product can withstand with NO damage being incurred. The values represent peak input acceleration during an 2~3 ms half-sine shock pulse, 11 ms trapezoidal shock pulse.	
	Non-Operating	35G's (Half-sine Shock) 40G's (Trapezoidal Shock)
Vibration	Listed are the levels of vibration the product can withstand with NO damage being incurred. The values represent a flat random vibration input acceleration profile across the given frequency range.	
	Operating	Random vibration at 5Hz@0.00025G ² / Hz, 10Hz@0.01G ² / Hz, 100Hz@0.01G ² / Hz, 300Hz@0.00001G ² / Hz



QuickSpecs

HP Compaq dx7400 Microtower Business PC

System Details

		5Hz to 300Hz, (0.25G's nominal).
	Non-Operating	Random vibration at 0.008G•/ Hz, 10Hz to 500Hz, (2 Grms nominal).
Acoustic Noise	Listed are the declared A-WEIGHTED SOUND POWER LEVELS (LWAd) and declared average desktop seated operator position A-WEIGHTED SOUND PRESSURE LEVELS (LpAm) when the product is operating in a 73.4°F (23°C) ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).	
	IDLE (Fixed disk drive spinning)	LWAd = 4.3 Bels, Desktop Average LpAm = 32 dBA
	FIXED DISK (Random write)	LWAd = 4.8 Bels, Desktop Average LpAm = 37dBA
	CD-ROM (Sequential Reads)	LWAd = 5.2 Bels, Deskside Average LpAm = 41dBA

Service and Support On-site Warranty^{Note 1}: One-year (1-1-1) limited warranty delivers one year of on-site, next business-day^{Note 2} service for parts and labor and includes free telephone support^{Note 3} 24 x 7. Global coverage^{Note 2} ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty and service offering. One-year onsite and labor are not available in all countries.

NOTE 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

NOTE 2: On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

NOTE 3: Technical telephone support applies only to HP-configured Compaq and third-party HP-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.



QuickSpecs

HP Compaq dx7400 Microtower Business PC

After-Market Options

Communications	NICs	
	Intel PRO/ 1000 PT Gigabit PCIe Adapter (full height)	EH352AA
	Wireless LAN	
	HP Wireless A+G PCI Card (North America only)	EA118AA
	HP Wireless A+G PCI Card (WW except North America)	PZ928AA
	Modems	
	Agere 2006 PCI High-Speed 56K International SoftModem	EK694AA
Hard Disk Drives	HP 250-GB SATA 3.0-Gb/s Hard Drive	PY278AA
	HP 160-GB SATA 3.0-Gb/s Hard Drive	PY277AA
	HP 80-GB SATA 3.0-Gb/s Hard Drive	PY276AA
Removable Storage Devices	Diskette Drive	
	HP 1.44-MB Internal Diskette Drive	AG295AA
	HP 1.44-MB USB Diskette Drive – External	DC141B
	16-in-1 Media Reader	EM718AA
	USB Drive Key	
	HP 1-GB Drive Key II Flash Drive	AG382AA
	HP (APJ) 512-MB Drive Key II Flash Drive	ED516AA
Input Devices	Keyboards	
	HP PS/2 Standard Keyboard	DT527A
	HP USB Standard Keyboard	DT528A
	Mice	
	HP PS/2 2-Button Scroll Mouse	DD440B
	HP PS/2 2-Button Optical Scroll Mouse	EY703AA
	HP USB 2-Button Optical Scroll Mouse	DC172B
Memory	HP 2-GB PC2-5300 (DDR2 667-MHz) DIMM	PX977AA
	HP 1-GB PC2-5300 (DDR2 667-MHz) DIMM	PX976AA
	HP 512-MB PC2-5300 (DDR2 667-MHz) DIMM	PX975AA
	HP 256-MB PC2-5300 (DDR2 667-MHz) DIMM	PX974AA
	HP 1-GB PC2-6400 (DDR2 800-MHz) DIMM	AH058AA
	HP 512-MB PC2-6400 (DDR2 800-MHz) DIMM	AH056AA
	HP 256-MB PC2-6400 (DDR2 800-MHz) DIMM	AH054AA
Audio	HP Satellite Speakers	ZD929AA



QuickSpecs

HP Compaq dx7400 Microtower Business PC

After-Market Options

Graphics	NVIDIA GeForce 8400 GS 256MB DH PCIe x1 Card	GJ120AA
	NVIDIA GeForce 8400 GS 256MB SH PCIe x16 Card	GJ119AA
Optical Drives	HP SATA CD-ROM Drive (available in Asia Pacific and Japan only)	AH045AA
	HP SATA CD-RW / DVD-ROM Combo Drive	AH046AA
	HP SATA DVD-ROM Drive	AH047AA
	HP SATA SuperMulti LightScribe DVD Writer Drive	GF343AA
Security	HP Business PC Security Lock Kit	PV606AA
Miscellaneous Accessories	HP FireWire / IEEE 1394 PCI Card	PA997A
Monitors	CRTs	
	HP s7540 17" (16.0" vis) CRT Monitor	PF997AA#XXX
	HP v7650 17" (16.0" vis) Flatface CRT Monitor	PF996AA#XXX
	TFTs	
	HP L1506 15" TFT Flat Panel Monitor – Analog only	PX848AA#XXX
	HP L1706 17" TFT Flat Panel Monitor – Analog only	PX849AA#XXX
	HP L1740 17" TFT Flat Panel Display – Analog/ Digital	PL766AA#XXX
	HP L1755 17" TFT Flat Panel Display – Analog/ Digital	PL777AA#XXX
	HP L1906 19" TFT Flat Panel Display – Analog only	PX850AA#XXX
	HP L1940T 19" TFT Flat Panel Display – Analog/ Digital	EM869AA#XXX
	HP L1955 19" TFT Flat Panel Display – Analog/ Digital	PD974AA#XXX
	HP L2065 20" TFT Flat Panel Display – Analog/ Digital	EF227A4#XXX
	HP LP2465 24" TFT Widescreen Flat Panel Display – Analog/ Digital	EF224A4#XXX
	GSA Monitors	
	HP L717g 17" GSA Flat Panel Monitor	EE191AA#ABA
	HP L919g 19" GSA Flat Panel Monitor	EE192AA#ABA
	Options	
	HP Flat Panel Speaker Bar	EE418AA
	HP CRT Monitor Multimedia Base	PM552AA



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Memory

DDR SYNCH DRAM NON-ECC MEMORY

The Intel Q33 Express chipset supports non-ECC DDR2 memory up to PC2-6400 (800-MHz). Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations.

CAUTION: You must shut down the computer and disconnect the power cord before adding or removing memory modules. Regardless of the power-on state, voltage is always supplied to the memory modules as long as the computer is plugged in to an active AC outlet. Adding or removing memory modules while voltage is present may cause irreparable damage to the memory modules or system board.

HP recommends dual-channel symmetric configurations for maximum performance.

For best performance, add the same amount of total memory to each channel and do not mix speeds. For dual-channel symmetric performance, the total amount of memory in each channel must be equal. If speeds are mixed, speed will default to the slowest DIMM.

STANDARD MEMORY

256-MB, 512-MB, 1-GB, or 2-GB DDR2 SYNCH DRAM

OPTIONAL MEMORY UPGRADES

Supports up to 8-GB of DDR2 SYNCH DRAM. Not all memory configurations possible are represented below.

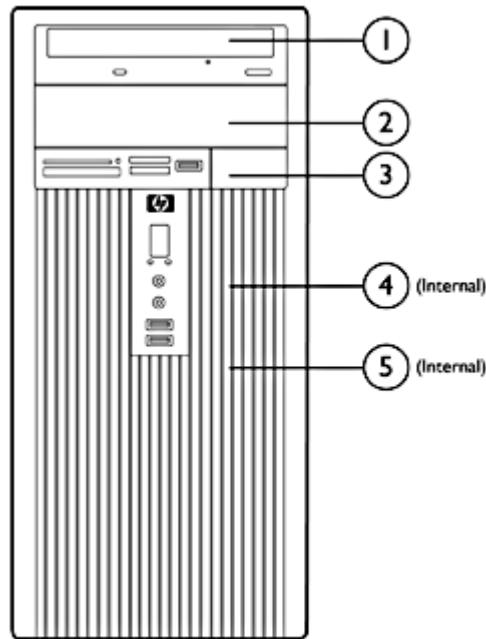
DIMM Size	Slot			
	Channel A		Channel B	
	1 (black)	2 (black)	3 (blue)	4 (blue)
512-MB	512-MB			
1-GB	1-GB			
1-GB (dual-channel symmetric)	512-MB		512-MB	
1-GB (dual-channel symmetric)	512-MB		512-MB	
2-GB (dual-channel symmetric)	1-GB		512-MB	512-MB
2-GB (dual-channel symmetric)	512-MB	512-MB	512-MB	512-MB
3-GB (dual-channel symmetric)	1-GB	512-MB	1-GB	512-MB
8-GB maximum (dual-channel symmetric)	2-GB	2-GB	2-GB	2-GB



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Storage



HP Compaq dx7400 Microtower Business PC

	Maximum Quantity Supported	Position Supported	Controller
Drive Support			
Diskette Drives	1	3	SIO
Media Reader	1	3	Internal USB 2.0 port
CD-ROM Drives	2	1, 2	SATA
DVD-ROM Drives	2	1, 2	SATA
CD-RW/ Combo Drives	2	1, 2	SATA
DVD+/-RW Drives	2	1, 2	SATA
3.5" Serial ATA Hard Drives	2	4, 5	SATA

QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Audio

Integrated Realtek ALC888 Audio	Type	Integrated
	HD Audio compatible codec	Yes
	Sampling	Supports 48/ 96 KHz
	Audio Jacks	Mic-In Line-In Line-Out / Headphone Out
	Power Support	Digital: 3.3V Analog: 5V
Other	Meets performance requirements for audio on PC99/ 2001 systems High-performance DACs with 97dB SNR(A-Weighting) ADCs with 90dB NR(A-Weighting)	



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Communications

Broadcom NetLink BCM5786 Gigabit Network Controller	Connector	RJ45
	Controller	Broadcom NetLink BCM 5786 Gigabit Ethernet Controller
	Memory	Large 48kb receive and 8kb transmit on chip buffer
	Data rates supported	10/ 100/ 1000 Mbps
	Compliance	IEEE 802.3 compliant, 802.3x flow control
	Bus architecture	PCI Express 1.1
	Data transfer mode	Bus-master DMA
	Hardware certifications	FCC, B, CE, TUV- cTUVus Mark Canada and United States, TUV- GS Mark for European Union
	Power requirement	Aux 3.3V, 1.234 Watts in 1000base-T and 0.641 Watts in 100Base-T
	Boot ROM support	Yes
	Network transfer rate	10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps (actual rate limited by PCI Bus)
	Environmental	Operating temperature 32° to 120°F (0° to 48.89° C) Operating humidity 85% at 120°F (48.89° C)
	Dimensions	68Pin QFN (10mm x 10mm x 0.85mm)
	Management capabilities	WOL, PXE

Intel PRO/ 1000 PT PCIe Gigabit NIC	Connector	RJ45
	Controller	Intel 82572EI Gigabit Ethernet Controller
	Memory	Integrated Dual 48K configurable transmit receive FIFO Buffers
	Data rates supported	10/ 100/ 1000 Mbps
	Compliance	IEEE 802.1P, 802.1Q, 802.2, 802.3, 802.3AB and 802.3u compliant, 802.3x flow control
	Bus architecture	PCI Express 1.0a
	Data transfer mode	Bus-master DMA
	Hardware certifications	FCC, B, CE, TUV- cTUVus Mark Canada and United States, TUV- GS Mark for European Union
	Power requirement	Aux 3.3V, 3.0 Watts in 1000base-T and 2.0 Watts in 100Base-T
	Boot ROM support	Yes
	Network transfer rate	10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Communications

Environmental	100BASE-TX (full-duplex) 200 Mbps
	1000BASE-T (full-duplex) 2000 Mbps (actual rate limited by PCI Bus)
Dimensions	Operating temperature 32° to 131°F (0° to 55° C)
	Operating humidity 85% at 131° F (55° C)
Management capabilities	6.4 x 2.6 x 0.8 in (16.3 x 6.6 x 1.9 cm)
	ASF, WOL, PXE, DMI, WFM 2.0.

HP Wireless A+G PCI Dimensions	4.99 x 2.54 x 0.71 in (126.8 x 64.4 x 18.0 mm)
Weight	0.268 lb (65 g)
Controller	Atheros AR5414X chipset
system interface	PCI Spec 2.2
Network standard	IEEE 802.11a/ b/ g
Frequency band	5.1500 to 5.8500 GHz
	2.4000 to 2.4835 GHz
	2.4465 to 2.4835 GHz (Europe, Middle East, Asia and Asia Pacific – excluding Japan)
	2.4000 to 2.4697 GHz (Japan)
Operating temperature	32° to 140° F (0° to 60° C), operating
Storage temperature	-4° to 176° F (-20° to 80° C), non-operating
Humidity	10% to 85% non-condensing
Operating voltage	5V ± 5%
Power consumption	Tx/ Rx peak 560/ 250mA @3.3V (max.)
Output power (approximately)	15 dBm ±2dB
Receive sensitivity	-90dBm at 11 Mbps (typical)
Data transfer rate	Standard rates of 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 48, 54 and Super AG Mode108-Mbps
Spreading	DSSS (Direct Sequence Spread Spectrum)
Security	64(40h) bit, 128(104h) bit, WPA, IEEE802.1X, AES-OCB, AES-CCM, Microsoft PEAP, TKIP, WEP
Antenna	External 5dBi antenna
Throughput	108 Mbps (only with 200 ft (60.96 m) – Indoor Belkin 54G or above router that supports 108 Mbps speed)
	54 Mbps 200 ft (60.96 m) – Indoor
	11 Mbps 200 ft (60.96 m) – Indoor
Certifications	Wi-Fi certified



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Technical Specifications - Communications

Certifications for use by country	North America: United States, Canada Europe: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom Australia New Zealand
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Agere 56K PCI Modem	Data Transmission	56,000 Kbps maximum downstream data NOTE: 56 Kbps technology refers to download speeds only and requires compatible modems at server sites. Other conditions may limit modem speed. FCC limitations allow a maximum of 53 Kbps during download transmissions.
	Data Speeds	(Upload only) 33,600/ 31,200/ 28,800/ 26,400/ 21,600/ 19,200/ 16,800/ 14,400/ 12,000/ 9,600/ 7,200/ 4,800/ 2,400/ 1,200/ 300
	Data Standards	ITU-T V.90, ITU-T, ITU-T V.34, V.44, V.42, V.42bis21, V.32bis, Bell 212A, and Bell 103
	Fax Speeds	14,400/ 12,000/ 9,600/ 7,200/ 4,800/ 2,400/ 300 b/s
	Fax Mode Capabilities	ITU-T T.31 class 1 FAX, V. 17, V.29, V.27ter, and V.21 Channel 2
	Error Correction and Data Compression	V.44, 42bis, V.42 and MNP2-5
	Power Management	ACPI; PPML 1.1 and wake support with PME and Vaux; meets PCI 2.3 requirements and PC 2001 requirements
	Upgradeability	Driver upgradeable for future enhancements
	Video	ITU-T V.80 video ready interface
	Other	TIA/ EIA 602 standard AT command set
		Integrated DTE interface with speeds of up to 115.2 Kbps, parallel 16550a UART-compatible interface
		Optional ring wakeup signal
	Operating Temperature	32° to 158° F (0° to 70° C)
	Operating Humidity	20% to 90%, non-condensing
	Power	Requires a 3.3-V auxiliary power rail on PCI bus
		Uses only one PCI load (i.e., one grant/ request pair), one shared IRQ, one electrical load
	Chipset	Agere Systems SV92PL – Integrated PCI interface with 5-V tolerant buffers and CardBus support
	Dimensions (L X H)	Complies with PCI low profile specifications 6.7 x 2.3 in (17.0 x 5.8 cm) and supports high- and low-profile brackets
	Connection	Single RJ-11 connector
	Other Features	Digital line protection, call progress monitoring via on-board piezo



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Technical Specifications - Communications

Safety	device, support for high profile and low profile brackets, PhP ID support UL recognized to UL 1950, 3rd edition (U.S. and Canada); IEC 950 (TUV, NEMKO, DEMKO, SEMKO); CE Mark, EC 950 (TUV, NEMKO, DEMKO, SEMKO, CE mark
EMC	FCC Part 15, IC ES003, EN 55022, 3rd edition, EN 55024, annex A, EN 61000-4-6, EN 61000-4-8
Telecom	FCC Part 68, IC-CS03 (Canada); Worldwide PTT approvals Not available in Korea or the Republic of South Africa.
Health	Bare PCB material compliant to 94V-0 or better (marked as such)
Other	PC 2001 compliant, PCI version 2.3, WHQL approved; ACPI compliant



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Graphics

Integrated Graphics Media Accelerator 3100	3D/2D Controller	Microsoft DirectX® 9 based with support for Pixel Shader 2.0, 4:1 anisotropic filtering, Gaussian texture filtering, shadow maps, volumetric textures, double-sided stencil buffers, and 4 pixel pipes.
	VGA Controller	Integrated
	Bus Type	PCI Express™ x16 (If an external graphics card is installed in a PCI or PCIe x1 slot, the internal graphics can be enabled or disabled using the system's BIOS setup utility. If a graphics card other than an SDVO/ ADD2 card is installed in the PCI Express™ x16 slot, the internal graphics cannot be enabled).
	RAMDAC	Integrated, 350 MHz (2048x1536@75 Hz)
	Memory	Graphics memory is shared with system memory. Graphics memory usage varies depending on the amount of system memory installed and system load. 8 MB is pre-allocated for graphics use at system boot time. Additional memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
		System memory equal or greater than 512 MB 8 MB pre-allocated + 248 MB DVMT = max frame buffer of 256 MB
	Overlay Planes	Single overlay support with 5x3 filtering
	Maximum Color Depth	32 bits/ pixel
	Maximum Vertical Refresh Rate	85 Hz at up to 1920x1440, 85 Hz at 2048x1536. Varies with mode and configuration. See table below.
	Multi-display Support	Support for one CRT via the motherboard's VGA connector. Support for an additional display can be accomplished with the addition of SDVO/ ADD2 option installed in PCIe x16 slot.
	Graphics/ Video API Support	Microsoft DirectX®9, DirectXVA®, VMF9, GDI/ GDI+; OpenGL® 1.4.

Resolutions Supported ¹	Resolution	Maximum Refresh Rate (Hz)	
		Analog Monitor	Digital Monitor
	640 x 480	85	60
	800 x 600	85	60
	1024 x 768	85	60
	1280 x 1024	85	60
	1600 x 1200	85	60
	1920 x 1080	85	60
	1920 x 1200	85	60
	1920 x 1440	85	N/ A
	2048 x 1536	75	N/ A

¹ Modes listed are supported with a single active display. The supported mode list for multiple active displays is a subset of this list. Not all modes will support video playback and some supported modes may use software MC (motion compensation) rather than hardware MC. Not all modes will support 3D acceleration depending on the system configuration (e.g., resolution selected, size of frame buffer, number of installed memory modules, etc.).



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Graphics

NOTE: Other resolutions and refresh rates may be selectable but are not recommended.

NVIDIA GeForce 8400 GS (256 MB SH) PCIe x16 Graphics Controller	Bus type	PCI Express (x16 lanes)	
	Maximum vertical refresh rate	85 Hz	
	Display support	Integrated 400 MHz RAMDAC	
	Display max resolution	2048 x 1536 (analog), 2560 x 1600 (digital)	
	Input/ Output connectors	DVI-I (DVI port supports dual-link and HDCP) TV-out (4 pin S-video)	
	Board display options	DVI-I + TV DVI-I supports analog CRT or flat panel or digital flat panel (using DVI-A, DVI-D or DVI-I connector) DVI-I supports analog CRT or flat panel (with VGA connector and DVI-I to VGA dongle) TV connector is a 4-pin mini-DIN S-video connector	
	Board configuration	Specification	Description
		Graphics Chip	NVIDIA GeForce 8400 GS
		Core clock	460 MHz
		Memory clock	200 MHz
		Frame buffer	256 MB DDR2
	Languages supported	24 languages: English, Arabic, Chinese Simplified, Chinese Traditional, Czechoslovakian, Danish, Dutch, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish	
	Core power	25 W (Max board power)	

NVIDIA GeForce 8400 GS (256 MB SH) PCIe x16 Graphics Controller display resolutions and refresh rates

NOTE: Other resolutions may be available but are not recommended as they may not have been tested and qualified by HP.

Analog Resolution	Maximum Refresh Rate
640 x 480	85 Hz
800 x 600	85 Hz
1024 x 768	85 Hz
1280 x 1024	85 Hz
1600 x 1200	85 Hz
1920 x 1080	85 Hz
1920 x 1200	85 Hz
1920 x 1440	85 Hz
2048 x 1536	85 Hz



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Graphics

640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1280 x 1024	60 Hz
1600 x 1200	60 Hz
1920 x 1200*	60 Hz
1920 x 1440**	60 Hz

* Reduced blanking timings used when connected to a single-link DVI monitor

** Requires a dual-link DVI capable monitor

NVIDIA GeForce 8400 GS (256 MB DH) PCIe x1 Graphics Controller	Bus type	PCI Express (x16 lanes)	
	Maximum vertical refresh rate	85 Hz	
	Display support	Integrated 400 MHz RAMDAC	
	Display max resolution	2048 x 1536 (analog), 2560 x 1600 (digital)	
	Input/ Output connectors	DMS59 (DMS59 port supports Dual VGA or Dual DVI connections) TV-out (4 pin S-video)	
	Board display options	DMS59 + TV DMS59 supports either 2 VGA displays with the included cable or 2 DVI displays with optional HP DMS59 DVI Dual-head Connector Cable kit #DL139A TV connector is a 4-pin mini-DIN S-video connector	
	Board configuration	Specification	Description
		Graphics Chip	NVIDIA GeForce 8400 GS
		Core clock	460 MHz
		Memory clock	200 MHz
		Frame buffer	256 MB DDR2
	Languages supported	24 languages: English, Arabic, Chinese Simplified, Chinese Traditional, Czechoslovakian, Danish, Dutch, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish	
	Core power	25 W (Max board power)	

NVIDIA GeForce 8400 GS (256 MB SH) PCIe x16 Graphics Controller display resolutions and refresh rates

NOTE: Other resolutions may be available but are not recommended as they may not have been tested and qualified by HP.

Analog Resolution	Maximum Refresh Rate
640 x 480	85 Hz
800 x 600	85 Hz



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Graphics

1024 x 768	85 Hz
1280 x 1024	85 Hz
1600 x 1200	85 Hz
1920 x 1080	85 Hz
1920 x 1200	85 Hz
1920 x 1440	85 Hz
2048 x 1536	85 Hz
Digital Resolution	Maximum Refresh Rate
640 x 480	85 Hz
800 x 600	85 Hz
1024 x 768	85 Hz
1280 x 1024	85 Hz
1600 x 1200	85 Hz
1920 x 1200*	85 Hz

* Reduced blanking timings used when connected to a single-link DVI monitor



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Input Devices

HP PS/2 or USB Standard Keyboard	Physical characteristics	Keys	104, 105, 106, 107, 109 layout (depending upon country)
		Dimensions (L x W x H)	18.0 x 6.4 x 0.98 in (45.8 x 16.3 x 2.5 cm)
		Weight	2 lb (0.9 kg) minimum
	Electrical	Operating voltage	+ 5VDC ± 5%
		Power consumption	50-mA maximum (with three LEDs ON)
		ESD	CE level 4, 15-kV air discharge
		EMI – RFI	Conforms to FCC rules for a Class B computing device
		Microsoft PC 99 – 2001	Functionally compliant
	Mechanical	Languages	38 available
		Keycaps	Low-profile design
		Switch actuation	55-g nominal peak force with tactile feedback
		Switch life	20 million keystrokes (using Hasco modified tester)
		Switch type	Contamination-resistant switch membrane
		Key-leveling mechanisms	For all double-wide and greater-length keys
		Cable length	6 ft (1.8 m)
	Environmental	Microsoft PC 99 – 2001	Mechanically compliant
		Acoustics	43-dBA maximum sound pressure level
		Operating temperature	50° to 122° F (10° to 50° C)
		Non-operating temperature	-22° to 140° F (-30° to 60° C)
		Operating humidity	10% to 90% (non-condensing at ambient)
		Non-operating humidity	20% to 80% (non-condensing at ambient)
		Operating shock	40 g, six surfaces
		Non-operating shock	80 g, six surfaces
		Operating vibration	2-g peak acceleration
		Non-operating vibration	4-g peak acceleration
		Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
		Drop (in box)	42 in (107 cm) on concrete, 16-drop sequence
		Approvals	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Input Devices

Ergonomic compliance		ANSI HFS 100, ISO 9241-4, and TUVGS	
HP 2-Button Scroll Mouse (PS/2)	Scroll Wheel	8 mm	
	Maximum Rotation Speed	30 mm/ s	
	Sw itch Type	Light force micro-switch	
	Sw itch Life	1 million operations	
	Mechanical Life	Minimum 200,000 revolutions	
	Environmental	Operating Temperature	50° to 122° F (10° to 50° C)
		Non-operating Temperature	-22° to 140° F (-30° to 60° C)
		Operating Humidity	10% to 90% (non condensing at ambient)
		Non-operating Humidity	20% to 80% (non condensing at ambient)
		Operating Shock	40 g, 6 surfaces
		Non-operating Shock	80 g, 6 surfaces
		Operating Vibration	2 g peak acceleration
		Non-operating Vibration	4 g peak acceleration
	Electrical	Operating Voltage	+ 5VDC $\pm$ 10%
		Pow er Consumption	15mA
		System Consumption	PS/ 2 mini-din connector
		ESD	CE level 4, 15 kV air discharge
		EMI-RFI	Conforms to FCC rules for a Class B computing device
		PC98	Functionally compliant
	Mechanical	Resolution	400 $\pm$ 20% DPI
		Tracking Speed	10 in/ s maximum
		Acceleration	100 in/ s
		Sw itch Actuation	85 g nominal peak force
		Sw itch Life	1,000,000 operations (using Hasco modified tester)
		Cable Length	2 m
		PC98-99	Mechanically compliant
	Regulatory Approvals	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BCIQ, C-Tick	



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Hard Drives

Serial ATA Hard Drives (7200 rpm)	80 GB	Capacity	80,026,361,856 bytes	
		Height	1 in (2.6 cm)	
		Width	Media diameter: 3.5 in (8.9 cm) Physical size: 4 in (10.2 cm)	
		Interface	Serial ATA	
		Synchronous Transfer Rate (Maximum)	1.5 Gb/ s	
		Buffer	8 MB	
		Seek Time (typical reads, includes controller overhead, including settling)	Single Track	1.0 ms
			Average	8.5 ms
			Full-Stroke	18 ms
		Rotational Speed	7,200 rpm	
		Logical Blocks	156,301,488	
		Operating Temperature	32° to 140° F (0° to 60° C)	
	160 GB	Capacity	160,041,885,696 bytes	
		Height	1 in (2.6 cm)	
		Width	Media diameter: 3.5 in (8.9 cm) Physical size: 4 in (10.2 cm)	
		Interface	Serial ATA	
		Synchronous Transfer Rate (Maximum)	1.5 Gb/ s	
		Buffer	8 MB	
		Seek Time (typical reads, includes controller overhead, including settling)	Single Track	1.0 ms
			Average	8.5 ms
			Full-Stroke	18 ms
		Rotational Speed	7,200 rpm	
		Logical Blocks	312,581,808	
		Operating Temperature	32° to 140° F (0° to 60° C)	
	250 GB	Capacity	250,059,350,016 bytes	
		Height	1 in (2.6 cm)	
		Width	Media diameter: 3.5 in (8.9 cm) Physical size: 4 in (10.2 cm)	
		Interface	Serial ATA	
		Synchronous	1.5 Gb/ s	



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Hard Drives

Transfer Rate (Maximum)		
Buffer	8 MB	
Seek Time (typical reads, includes controller overhead, including settling)	Single Track	0.8 ms
	Average	<9.0 ms
	Full-Stroke	• 17 ms
Rotational Speed	7,200 rpm	
Logical Blocks	488,397,168	
Operating Temperature	41° to 131° F (5° to 55° C)	



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Optical Storage

SATA DVD-ROM Drive	Height	5.25-inch, half-height, tray-load		
	Orientation	Either horizontal or vertical		
	Interface type	SATA/ ATAPI		
	Disc capacity	Single layer: Up to 4.7 GB (6 times capacity of CD-ROM) Double layer: Up to 8.5 GB (12 times capacity of CD-ROM)		
	Dimensions (W x H x D)	5.9 x 1.7 x 8.0 in (15.0 x 4.4 x 20.3 cm)		
	Weight (max)	2.6 lb (1.2 kg)		
	Read speeds	DVD+R/ -R/ +RW / -RW / +R DL / -R DL	Up to 8X	
		DVD-ROM	Up to 16X	
		DVD-RAM	Up to 4X	
		CD-ROM, CD-R	Up to 48X	
	CD-RW	Up to 32X		
Removable Storage - Media Compatibility - DVD-ROM	Media	Read	Write	
	CD-ROM	Yes	No	
	CD-R	Yes	No	
	CD-RW	Yes	No	
	DVD-ROM	Yes	No	
	DVD-ROM DL	Yes	No	
	DVD-RAM	Yes	No	
	DVD+R	Yes	No	
	DVD+R DL	Yes	No	
	DVD+RW	Yes	No	
	DVD-R	Yes	No	
	DVD-RW	Yes	No	
	DVD-R DL	Yes	No	
Access times (typical reads, including setting)	Random	DVD: < 140 ms (typical), CD: < 125 ms (typical)		
	Full Stroke	DVD: < 250 ms (seek), CD: < 210 ms (seek)		
	Cache Buffer	2 MB (minimum)		
	Data Transfer Modes	ATA PIO mode 4 (16.7 MB/ s); ATA Multi-word DMA mode 2 (16.7 MB/ s); ATA UltraDMA Mode 3 (44.4 MB/ s -default)		
Power	Source	SATA DC power receptacle		
	DC Power Requirement	5 VDC ± 5%-100 mV ripple p-p 12 VDC ± 5%-200 mV ripple p-p		
	DC Current	5 VDC - <1000 mA typical, < 1600 mA maximum 12 VDC < 600 mA typical, < 1400 mA maximum		



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Optical Storage

Environmental (all conditions non-condensing)	Temperature	41° to 122° F (5° to 50° C)
	Relative Humidity	10% to 90%
	Maximum Wet Bulb Temperature	86° F (30° C)

SATA CD-RW/ DVD-ROM Combo Drive	Height	5.25-inch, half-height, tray-load	
	Orientation	Either horizontal or vertical	
	Interface type	SATA/ ATAPI	
	Disc capacity	Single layer: Up to 4.7 GB (6 times capacity of CD-ROM) Double layer: Up to 8.5 GB (12 times capacity of CD-ROM)	
	Dimensions (W x H x D)	5.9 x 1.7 x 8.0 in (15.0 x 4.4 x 20.3 cm)	
	Weight (max)	2.6 lb (1.2 kg)	
	Write speeds	CD-R	Up to 48X
		CD-RW	Up to 32X
	Read speeds	DVD+R/ -R/ +RW/ -RW/ +R DL / -R DL	Up to 8X
		DVD-ROM	Up to 16X
		CD-ROM, CD-R	Up to 48X
		CD-RW	Up to 32X
	Access times (typical reads, including setting)	Random	DVD: < 140 ms (typical), CD: < 125 ms (typical)
		Full Stroke	DVD: < 250 ms (typical), CD: < 210 ms (typical)
	Power	Source	SATA DC power receptacle
		DC Power Requirement	5 VDC $\pm$ 5%-100 mV ripple p-p 12 VDC $\pm$ 5%-200 mV ripple p-p
		DC Current	5 VDC - <1000 mA typical, < 1600 mA maximum
			12 VDC < 600 mA typical, < 1400 mA maximum
	Environmental (all conditions non-condensing)	Temperature	41° to 122° F (5° to 50° C)
		Relative Humidity	10% to 90%
		Maximum Wet Bulb Temperature	86° F (30° C)

SATA DVD+/-RW LightScribe Drive	Height	5.25-inch, half-height, tray-load	
	Orientation	Either horizontal or vertical	
	Interface type	SATA/ ATAPI	
	Disc capacity	Single layer: Up to 4.7 GB (6 times capacity of CD-ROM) Double layer: Up to 8.5 GB (12 times capacity of CD-ROM)	



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Optical Storage

Dimensions (W x H x D)			5.9 x 1.7 x 8.0 in (15.0 x 4.4 x 20.3 cm)
Weight (max)			2.6 lb (1.2 kg)
Write speeds	DVD+R		Up to 16X
	DVD+RW		Up to 8X
	DVD+R DL		Up to 8X
	DVD-R DL		Up to 4X
	DVD-R		Up to 16X
	DVD-RW		Up to 6X
	CD-R		Up to 48X
	CD-RW		Up to 32X
	DVD-RAM		Up to 4X
	DVD+R/-R/+RW/-RW/+R DL/-R DL		Up to 8X
Read speeds	DVD-ROM		Up to 16X
	CD-ROM, CD-R		Up to 48X
	CD-RW		Up to 32X
Access times (typical reads, including setting)	Random		DVD: < 130 ms (typical), CD: < 120 ms (typical)
	Full Stroke		DVD: < 240 ms (seek), CD: < 200 ms (seek)
Power	Source		SATA DC power receptacle
	DC Power Requirement		5 VDC $\pm$ 5%-100 mV ripple p-p 12 VDC $\pm$ 5%-200 mV ripple p-p
	DC Current		5 VDC - <1000 mA typical, < 1600 mA maximum 12 VDC < 600 mA typical, < 1400 mA maximum
Environmental (all conditions non-condensing)	Temperature		41° to 122° F (5° to 50° C)
	Relative Humidity		10% to 90%
	Maximum Wet Bulb Temperature		86° F (30° C)



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Removable Storage

HP 1.44-MB Diskette Size	3.5 in (8.89 cm)	
Drive	LED Indicators (front panel)	Green
	Read/ Write Capacity per Diskette (high/ low)	1.44 MB/ 720 KB
	Drive Height	One-third
	Drive Rotation	300 rpm
	Transfer Rate (high/ low)	500/ 250 KB/ s
	Bytes/ Sector	512
	Sectors/ Track (high/ low)	18/ 9
	Tracks/ Side (high/ low)	80/ 80
Access Times	Track-to-Track (high/ low)	3/ 6 ms
	Average (high/ low)	94/ 173 ms
	Settling Time	15 ms
	Latency Average	100 ms
	Cylinders (high/ low)	80/ 80
	Read/ Write Heads	Two

HP 16-in-1 Media Card Reader	USB interface	USB 2.0 High-speed device via PCI card or pass-through via internal USB port of system board
	Advance protocol support	• Supports hardware ECC (Error Correction Code) function • Supports hardware CRC (Cyclic Redundancy Check) function • Supports MS 4-bit parallel transfer mode • Supports MS-PRO 4-bit parallel transfer mode • Supports SD 4-bit parallel transfer mode • Supports high-speed 50 MHz SD 4-bit card (version 1.1) • Support high-speed 52 MHz MMC 8-bit card (version 4.x)
	Supported media types	• Supports CompactFlash Card Type I (CF I), CompactFlash Card Type II (CF II), MicroDrive (MD) • Supports 3.3V SmartMedia Card (SM), SmartMedia ROM (SM ROM), xD-Picture Card (xD) • Supports Secure Digital Card (SD), Secure Digital ROM Card (SD ROM), miniSD, MultiMediaCard (MMC), Secure MultiMediaCard (Secure MMC), ROM Type MultiMediaCard (MMC ROM), Reduced Size MultiMediaCard (RS MMC), MultiMediaCard 4.0 (MMC Plus), Reduced Size MultiMediaCard 4.0 (MMC Mobile)



QuickSpecs

HP Compaq dx7400 Microtower Business PC

Technical Specifications - Removable Storage

- Support Memory Stick (MS), Memory Stick ROM (MS ROM), MagicGate Memory Stick (MG), Memory Stick Select, Memory Stick Duo (MS Duo), Memory Stick PRO (MS-PRO), Memory Stick PRO Duo (MS PRO Duo)

Mechanical	Length (3.5")	124.7 cm
	Width (3.5")	101.6 cm
	Height (3.5")	25.4 cm
	Length (5.25")	171.6 cm
	Width (5.25")	148.9 cm
	Height (5.25")	42.7 cm
Environmental	Operational environmental extremes	Test Parameters/ Conditions - Power applied, unit operating on system $\pm 5\%$ nominal supply voltage. 10°C 10% R.H. f 24 hours 10°C 90% R.H. f 24 hours 20°C 90% R.H. f 24 hours 30°C 90% R.H. f 24 hours 40°C 90% R.H. f 24 hours 50°C 90% R.H. f 24 hours 50°C 10% R.H. f 24 hours
	Storage environmental extremes	Test Parameters/ Conditions 60°C @80% R.H. for 96 hours -30°C @20% R.H. for 48 hours No power applied Delta °C < 1.0°C/ min Delta % R.H. < 1.5% R.H./ min
Approvals	USB-IF, WHQL, Compliant with USB Mass Storage Class Bulk only Transport Specification Rev. 1.0, Compliant Intel Front Panel I/ O Connectivity Design Guide V. 1.2 FCC, CE, BSMI, C-Tick, VCCI, MIC, cUL, TUV-T	

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