

# UNINTERRUPTIBLE POWER SUPPLY



**Description:** UPS-1000D

**SPECIFICATIONS:** PRIMARY TECHNICAL PARAMETER

Rated voltage: AC 220V  
Rated frequency: 50Hz/60Hz  
Input range: AC 165V~275V  
Output voltage: AC 220V~10%  
Transfer time: 4ms  
Battery type: 12V/7AH/1PC (500D/650D)  
                  12V/7AH/2PCS (1000D/1200D)  
Back-up time: Over 15 minutes if use for one PC with a  
                  17' monitor (500D/650D);  
                  Over 15 minutes if use for two PCS with  
                  17' monitor (1000D/1200D)  
Charge time: ≤8 hours  
Operating temperature: -5℃~40℃  
Operating humidity: 10-90% RH, non condensing.  
Audio noise: < 40dBA  
Lighting protection: IEEE~587A  
**DIMENSION & WEIGHT:**  
Measurement(mm):300x120x191  
Packing Size(mm):360x180x285  
N.Weight(Kg):13.0

**Remarks :** FUNCTION & CHARACTERISTIC

LCD display  
CPU control  
AVR function  
Auto detect frequency  
Large loading capacity & compatibility  
Intelligent UPS management software  
Cold start function  
Wide input voltage range  
Overload and output short circuit protection  
Over discharge function  
Build-in power purify circuit restrain distortion of lightning,  
pulse and miscellaneous waves etc.  
Buzzer alarm and sound silence function  
FAX/MODEM/TEL protection port

# HP Compaq dx2000 MicroTower Desktop Computer



Combining essential features and affordability, the HP Compaq Business Desktop dx2000 microtower is a simple low-cost PC built with proven technology that is ideal for budget conscious users and everyday applications.

## PC system features

Chassis description	Microtower
Operating systems included	Microsoft Windows XP Professional, Microsoft Windows XP Home or Mandrake Linux 9.2
Processor type	Intel® Pentium® 4 with Hyper-Threading or Intel® Celeron® Processor
Processor / CPU	<b>min:</b> 2.53 GHz, 256-KB L2 Advanced Transfer Cache, 533-MHz system bus <b>max:</b> 3.4 GHz, 1-MB L2 Advanced Transfer Cache, 800-MHz system bus
Cache description	1-MB L2 Advanced Transfer Cache on Intel® Pentium® 4 processors; Intel® Celeron® processors have 256-KB L2 Advanced Transfer Cache
Chipset	Intel® 865GV chipset
Memory description	<b>min:</b> 128 MB <b>max:</b> 1 GB
Memory upgrades	Expandable to 4.0 GB
Memory slots	4 DIMM slots
Hard drive, internal	<b>min:</b> 40 GB (5400 rpm) <b>max:</b> 80 GB (7200 rpm)
Hard disk controller	Ultra ATA/100
Optical drive	48X CD-ROM Drive, 48X/32X/48X CD-RW Drive, Combo CD-RW/DVD-ROM Drive, 16X/40X DVD-ROM drive w/ +R read; 1.44MB diskette drive
Drive bays	2-3.5" internal, 2-5.25" and 1-3.5" external, 0 multibay
Internal audio	Integrated AC '97 audio
Mouse / pointing device	PS/2 2-Button Scroll Mouse or USB optical scroll mouse
I/O (input/output) ports	(2) front USB 2.0 ports and (6) rear USB 2.0 ports, (1) serial, (1) parallel, (2) PS/2 ports, (1) VGA port
Keyboard	Basic PS/2 Windows Keyboard

### Graphics

Graphics card(s) available	Intel® Extreme Graphics 2 (Integrated with Intel 865GV Chipset) No optional graphics cards supported
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### Communications features

Network / LAN characteristics	Integrated Intel® PRO/100 Network Connection
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### PC specifications

System dimensions, without keyboard (w x d x h)	7.10 x 15.60 x 14.00 in
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Weight	Approximately 10.5 lbs
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Keyboard dimensions (w x d x h)	18 x 6.4 x 0.98 in
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Power	250 watt ATX Power Supply -- PFC/Non PCF with a 115v/230v line switch
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### Service and support

Warranty	1-1-1 standard warranty -- 1 year onsite, next business day, 1 year parts and 1 year labor and includes free telephone support 24 x 7. Certain restrictions and exclusions apply.
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# HP Compaq Business Notebook nx9500



## Technical Specifications

System Unit	<b>Dimensions</b> (HxWxD)	10.94 (11.34 with hinge) x 15.67 x 1.67 (front)/1.85 (rear) [inches] 27.79 (28.50 with hinge) x 39.80 x 4.24 (front)/4.70 (rear) [centimeters]										
	<b>Weight</b>	9.5 lb (4.3 kg)										
	<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.											
	<b>Stand-Alone Power Requirements</b>	<table border="0"> <tr> <td><b>Nominal Operating Voltage</b></td> <td>14.8V (on 12-cell battery) 18.5V (on AC power)</td> </tr> <tr> <td><b>Average Operating Power</b></td> <td>10.5 W (on battery) 16 W (on AC power)</td> </tr> <tr> <td><b>Peak Operating Power</b></td> <td>120 W or 125W (depending on CPU speed)</td> </tr> <tr> <td><b>Power in suspend mode</b></td> <td>&lt; 1 W</td> </tr> <tr> <td><b>Power in hibernation mode</b></td> <td>&lt; 50 mW</td> </tr> </table>	<b>Nominal Operating Voltage</b>	14.8V (on 12-cell battery) 18.5V (on AC power)	<b>Average Operating Power</b>	10.5 W (on battery) 16 W (on AC power)	<b>Peak Operating Power</b>	120 W or 125W (depending on CPU speed)	<b>Power in suspend mode</b>	< 1 W	<b>Power in hibernation mode</b>	< 50 mW
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<b>CSA (Canada)</b>	No											

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<b>Keyboard</b>	<b>Keys</b>	102 including separate numeric keypad
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**Dimensions** (L x W x H) 14.42 x 4.69 x 0.24 in (36.63 x 11.91 x 0.61 cm)

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**External AC Adapter**  
(PFC or non-PFC)

**Dimensions** 6.65 X 2.56 X 1.50 in (16.9 x 6.5 x 3.8 cm)  
**Weight** 1.54 lb (700 g) 120W  
1.65 lb (750 g) 135W  
**Input** 100 to 240 VAC  
**Input Efficiency** 83% min at 115 VAC  
**Input frequency range** 47 to 63 Hz  
**Input AC current** 2.2 A at 90 VAC, 1.1 A at 180 VAC.  
**Output**  
**Output power** 120 W (3.0-GHz processor)  
135 W (3.2- or 3.4-GHz processor)  
**DC output** 18.50V +3.75%/-2.70%  
**Hold-up time** 5 msec at 115 VAC input  
**Output current limit** <8A, Over voltage protection- 29V max automatic shutdown  
**Connector** 3 pin/grounded, mates with interchangeable cords  
**Environmental Design**  
**Operating temperature** 32° to 95° F (0° to 35° C)  
**Non-operating (storage) temperature** -4° to 149° F (-20° to 65° C)  
**Altitude** 0 to 10,000 ft (0 to 3,048 m)  
**Humidity** 20% to 80%  
**Storage Humidity** 10% to 90%

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Lithium-Ion Battery  
Pack 12 cell

**Dimensions** (H x W x L) 6.0 x 4.63 x .81 in (12.24 x 11.76 x 2.06 cm)  
**Weight** 1.298 lb (0.59 kg)  
**Cells/Type** 12-cell Lithium-Ion  
**Energy**  
**Voltage** 14.8V  
**Amp-hour capacity** 6.6 Ah  
**Watt-hour capacity** 96Wh  
**Temperature**  
**Operating** 41° to 113° F (5° to 45° C)  
**Non-operating** 32° to 140° F (0° to 60° C)  
**Battery Re-Charge Time**  
**System in OFF mode or Standby** 2 hours 45 minutes  
**System ON** (depending on system power consumption) 3.5 – 8 hours

## Battery Run Time

HP tested an HP Compaq nx9500 Business Notebook running Windows XP Professional Edition, equipped with an Intel Pentium 4 3.2 GHz processor, 17-inch WXGA LCD, 1 GB RAM, 80-GB HDD, Lithium-Ion battery, NIC, and modem.  
This configuration achieved a MobileMark 2002 score of 1 hour 47 minutes.

Test settings:

- LCD brightness set to half, but no less than 60 nits
- Power management scheme: Laptop/Portable
- Hard drive timer set to three minutes
- Standby and video timers set to Never.
- Wireless (802.11) turned off.

**NOTE:** Actual results may vary with product model, configuration, and individual usage.

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17.0-Inch Color TFT WXGA+ Wide Viewing Angle 16:10 Display	<b>Dimensions</b> (H x W x L)	15.0 x 9.6 in (382.2 x 244.5 mm)		
	<b>Diagonal Size</b>	17.0 in (431.8 mm)		
	<b>Mounting</b>	Side Mount		
	<b>Number of Colors</b>	262144		
	<b>Contrast Ratio</b>	250:1 typical		
	<b>Refresh Rate</b>	60 Hz		
	<b>Brightness</b>	160 nit typical		
	<b>Pixel Resolution</b>	<b>Pitch</b>	0.255 x 0.255 mm	
		<b>Format</b>	1440x 900	
		<b>Configuration</b>	RGB Stripe	
	<b>Backlight</b>	CCFT		
	<b>Character Display</b>	80 x 25		
	<b>Total Power Consumption</b>	6.28 W (typ.)		
<b>Viewing Angle</b>	±60° degrees Horizontal, +45°/-55° Vertical (typical)			

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## Hard Drives

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100-GB 4200 rpm	<b>Drive Weight</b>	0.22 lb (99 g)		
	<b>Capacity</b>	100 GB		
	<b>Height</b>	0.37 in (9.5 mm)		
	<b>Width</b>	2.75 in (70 mm)		
	<b>Interface</b>	ATA-6		
	<b>Transfer Rate</b>	<b>Synchronous</b> (maximum)	100 MB/s (Drive Capability)	
		<b>Security</b>	ATA Security	
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	3 ms	
		<b>Average</b>	13 ms	
		<b>Maximum</b>	24 ms	
<b>Rotational Speed</b>	4200 rpm			

<b>Logical Blocks</b>	195,371,568	
<b>Operating Temperature</b>	41° to 131°F (5° to 55°C)	
<b>Features</b>	<b>Security</b>	ATA Security

80-GB 5400 rpm	<b>Drive Weight</b>	0.22 lb (99 g)	
	<b>Capacity</b>	80 GB	
	<b>Height</b>	0.37 in (9.5 mm)	
	<b>Width</b>	2.75 in (70 mm)	
	<b>Interface</b>	ATA-6	
	<b>Transfer Rate</b>	<b>Synchronous</b> (maximum)	100 MB/s (Drive Capability)
		<b>Security</b>	ATA Security
	<b>Seek Time</b> (typical reads, including settling)	<b>Single Track</b>	3 ms
		<b>Average</b>	13 ms
		<b>Maximum</b>	24 ms
	<b>Rotational Speed</b>	5400 rpm	
	<b>Logical Blocks</b>	156,301,488	
	<b>Operating Temperature</b>	41° to 131°F (5° to 55°C)	
	<b>Features</b>	<b>Security</b>	ATA Security

#### Removable Storage Drives – Fixed Bay

DVD+RW Drive	<b>Dimensions</b>	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)		
	<b>Weight</b>	0.551 lb (250 g)		
	<b>Access Times</b>	<b>Random</b>	<175 ms CD <230 ms DVD	
		<b>Full Stroke</b>	<285 ms CD <335 ms DVD	
	<b>Max data transfer rate</b>	<b>24x CD-ROM</b>	3,600 KB/s	
		<b>8x DVD</b>	10,800 KB/s	
		<b>16x CD-R</b>	2,400 KB/s	
		<b>8x CD-RW</b>	1,200 KB/s	
		<b>2x DVD+R</b>	2,700 KB/s	
		<b>2x DVD+RW</b>	2,700 KB/s	
	<b>Transfer Mode</b>	Multiword DMA Mode 2		
	<b>Interface</b>	EIDE		
	<b>Supported Media</b> (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW		
	<b>Supported Media</b> (write)	CD-R, CD-RW, DVD+R, DVD+RW		
<b>Max Media Capacity</b> (read)	4.7GB			

<b>Max Media Capacity (write)</b>	4.7GB
<b>Transport</b>	Tray Loading

DVD/CD-RW Combination Drive	<b>Dimensions</b>	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)		
	<b>Weight</b>	0.551 lb (250 g)		
	<b>Access Times</b>	<b>Random</b>	<110 ms CD <130 ms DVD	
		<b>Full Stroke</b>	<210 ms CD <225 ms DVD	
	<b>Max data transfer rate</b>	<b>24X CD-ROM</b>	3,600 KB/s	
		<b>24X CD-R</b>	3,600 KB/s	
		<b>10X CD-RW</b>	1,500 KB/s	
		<b>8X DVD-ROM</b>	10,800 KB/s	
	<b>Transfer Mode</b>	Multiword DMA Mode 2		
	<b>Interface</b>	EIDE		
	<b>Supported Media (read)</b>	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM, DVD-R, DVD+R, DVD-RW, DVD+RW, DVD-RAM		
	<b>Supported Media (write)</b>	CD-R, CD-RW		
<b>Max Media Capacity (read)</b>	4.7GB			
<b>Max Media Capacity (write)</b>	700MB			
<b>Transport</b>	Tray Loading			

Audio	<b>Hardware</b>	<b>Implementation</b>	AC97 CODEC	
		<b>Audio Signal Link to CPU</b>	Audio CODEC (AC) link	
		<b>Full Duplex</b>	Yes	
		<b>Stereo Inputs</b>	Line In – 20K Impedance (with Port Replicator only)	
			Microphone – 20K Impedance	
		<b>Stereo Outputs</b>	Headphone jack, S/PDIF from Port Replicator only	
	<b>Audio Output Quality</b>	<b>Frequency Response</b>	20 Hz – 20 kHz	
		<b>Signal to Noise Ratio</b>	>90dB	
		<b>Total Harmonic Distortion</b>	0.01%	
		<b>Noise Floor</b>	-120dB	
		<b>Play/Record Sampling Rate(s)</b>	7 kHz – 48 kHz	
		<b>AD/DA Resolution</b>	16 bit	



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Integrated 10/100 NIC	<b>Ethernet Features</b>	<p>10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)</p> <p>100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)</p> <p>Auto-Negotiation (Automatic Speed Selection)</p> <p>Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s</p> <p>IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)</p>
	<b>Power Management</b>	<p>ACPI 1.1a compliant -- multiple power modes</p> <p>Situation-sensitive features reduce power consumption</p>
	<b>Manageability</b>	<p>Wake-on-LAN from all Power-Managed States (configurable; Magic Packet and Microsoft Wake-Up Frame)</p> <p>PXE 2.0 Remote Boot</p> <p>Statistics Gathering (RMON, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))</p> <p>Comprehensive diagnostic and configuration software suite</p>
	<b>NIC Device Driver Name</b>	Broadcom 440X 10/100 Integrated Controller
	<b>Drivers Available</b>	<p>Windows XP</p> <p>DOS NDIS2 and ODI</p>

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Broadcom 54g Maxperformance 802.11g WLAN	<b>Wireless LAN Standards</b>	<p>IEEE 802. Part 11b (802.11b)</p> <p>IEEE 802. Part 11g (802.11g)</p>
	<b>Interoperability</b>	Wi-Fi certified
	<b>Frequency Band</b>	2.4 GHz
	<b>Data Rates</b>	<p>802.11b: 1, 2, 5.5, 11 Mbps</p> <p>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</p>
	<b>Modulation</b>	<p>Direct Sequence Spread Spectrum</p> <p>DBPSK, DQPSK, CCK, OFDM</p>
	<b>Security</b>	<p>64 and 128 bit WEP encryption</p> <p>Support for WiFi Protected Access (WPA) including TKIP, MIC</p> <p>Hardware-accelerated support for the Advanced Encryption Standard (AES; 256-bit encryption)</p> <p>Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation); Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program).</p>
	<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>Network Architecture Models</b>	<p>Ad-hoc (Peer to Peer)</p> <p>Infrastructure (Access Point Required)</p>
	<b>Roaming</b>	IEEE 802.11 compliant roaming between 802.11b/g access points
	<b>Output Power</b>	<p>802.11b: 13.5 dBm (typical)</p> <p>802.11g: 13.5 dBm (typical)</p>
	<b>Power Consumption</b>	<p>Transmit: 1.1 W (max)</p> <p>Receive: 900 mW (max)</p>

<b>Power Management</b>	ACPI compliant power management 802.11 Compliant Power Saving Mode Power Saving Mode selectable through the configuration utility	
<b>Receiver Sensitivity*</b>	54 Mbps: -65 dBm to 1 Mbps: -92 dBm	
<b>Antenna type</b>	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure	
<b>Range</b>	<b>802.11 b – Typical</b>	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment
	<b>802.11 g – Typical</b>	1000 feet – Outdoor Open Area 200 feet – Indoor, Office environment
<b>Form Factor</b>	MiniPCI Type IIIA	
<b>Weight</b>	0.027 lb (12 g)	
<b>Dimensions</b>	0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)	
<b>Operating Voltage</b>	3.3v	
<b>Temperature</b>	<b>Operating</b>	32° to 122° F (0° to 50° C)
	<b>Non-operating</b>	-14° to 158° F (-10° to 70° C)
<b>Humidity</b>	<b>Operating</b>	10% to 90%
	<b>Non-operating</b>	5% to 95%
<b>Altitude</b>	<b>Operating</b>	0 to 15,000 ft (4,572 m)
	<b>Non-operating</b>	0 to 40,000 ft (12,192 m)
<b>Configuration Utility</b>	Choice of Configuration Utility: <ul style="list-style-type: none"> <li>• Broadcom Client Utility for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support)</li> <li>• Microsoft Windows XP Wireless Zero Configuration Utility</li> </ul>	

**NOTE:** May also be compatible with certain third party software supplicants.

**LED Activity** LED Off – Radio OFF; Solid LED – Radio ON

\*Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation)

\*\* End-user may not obtain typical ranges due to environmental factors such as RF interference, RF signal obstructions, RF absorbing materials, and other RF traffic

Integrated Conexant  
56K ALink Modem

<b>Form Factor</b>	Integrated on motherboard
<b>Power Management Support</b>	APM Revision 1.2, ACPI
<b>Approvals/ Certifications</b>	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, other countries
<b>Data Mode Capabilities</b>	high speed (a-law, mu-law)
	K56flex (a-law, mu-law)
	V.8bis
	V.80
	V44.bis, MNP5 (Compression)
	V42.bis, MNP5 (Compression)
	V.42 (LAPM, MNP2-4) (Error Correction)
	V.34 (file date: 10/96)

**Optional symbol rates:**

2800, 3429

Asymmetric Symbol rates

**Synchronous primary channel data signaling rates:**

3600, 31200

Automatic rate re-negotiation

V.32bis

V.32

V.23

V.22bis

V.22

V.21

Bell 212A

Bell 103J

**Fax Mode Capabilities** TIA-578-S (Class 1)

T.30, T.4 (Group 3)

V.17

V.29

V.27ter

V.21 Channel 2

**Command Set** V.250 (Partial)

TIA-602

Identification: +GMI, +GMM, +GMR

Port control: +IPR, +ICF, +IFC, +ILRR

Modulation: +MS, +MR, +MA

Error control: +ES, +ER, +EB, +ESR, +ETBM

Data compression: +DS, +DR

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