

hp e-pc 40

april 2002



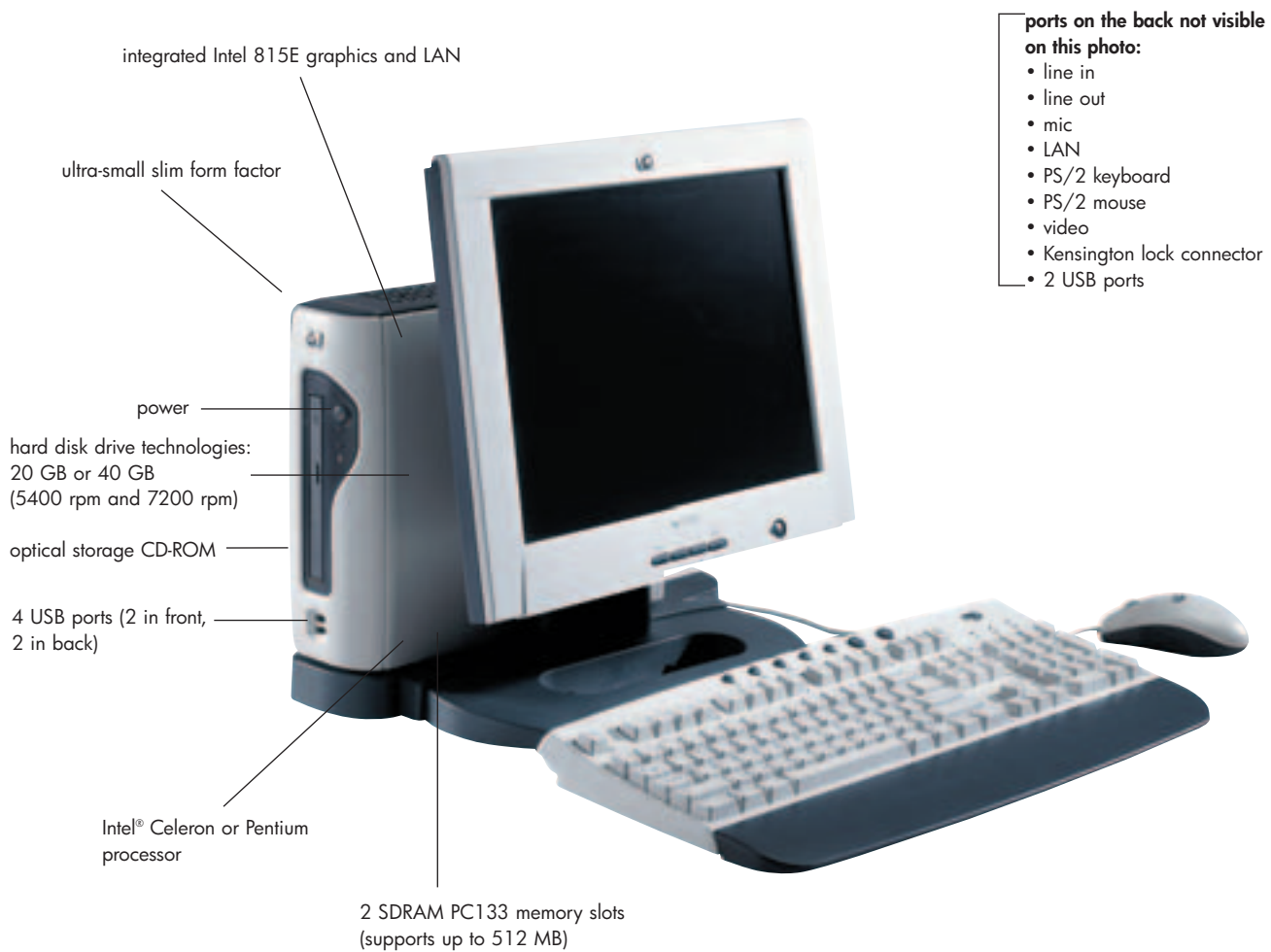
e-pc with Intel® Celeron™ and Pentium® III processors

The e-pc 40 offers Celeron and Pentium III processors, with integrated graphics and LAN interface in an ultra small form factor.

- **easy to deploy:** With 9 to 12 month product lifecycles, stable software images, and tools and services to centrally deploy your PCs and e-pcs, the HP professional line PCs helps you reduce workload and cost of deployment.
- **easy to manage:** Every professional line PC from HP comes with HP Tiptools to let you manage HP and non-HP PCs as well as servers, printers, and more. Combining the built-in manageability of HP professional line PCs with HP Tiptools enables you to use fewer IT resources to manage more PCs. It complements, and integrates with, other network and software management solutions such as HP OpenView and Microsoft® SMS.
- **easy to support:** HP professional line PCs are serviceable, help you increase uptime, and keep support costs under control.
- **small, silent, stylish:** About the size of a dictionary, the e-pc 40 fits almost anywhere. Its versatility and low noise optimize your working comfort.
- **reliability, simplified parts replacement and control:** The HP e-pc 40 is simpler than a classic PC. Fewer components mean fewer problems: reduces the average failure risk by 35%. With only four modules—memory, hard disk drive, system chassis, and external power supply—the innovative design of the e-pc 40 brings serviceability to a level where end users don't have to wait for a technician to swap parts, resulting in reduced downtime. Complement this with the fact that it is simple to transport and stock because of its small size and weight. For standardized environments, the "sealed box" concept of the HP e-pc 40 prevents unauthorized hardware changes, and with its unique Port Control System, you can manage the addition or removal of connected devices.

professional line PC





at a glance

new technology highlights

- Intel Celeron 1 GHz and 1.1 GHz processor with 128 KB level-2 integrated cache and a 100 MHz front side bus; Intel Celeron 1.2 GHz, 1.3 GHz, and 1.4 GHz processor with 256 KB level-2 integrated cache and a 100 MHz front side bus; Intel Pentium III 1.13 GHz and 1.2 GHz processor with 256 KB level-2 integrated cache and a 133 MHz front side bus
- 64, 128, or 256 MB SDRAM memory at 133 MHz, expandable to 512 MB
- Intel 815E integrated graphics chipset with direct AGP graphics for 2D and 3D graphics; SDRAM PC 133 memory support; two memory slots; 100 or 133 MHz front side bus; Ultra ATA/100; four USB 1.1
- Integrated Intel 10Base-T and 100Base-TX LAN interface
- 16-bit stereo full-duplex integrated sound with external connectors for microphone, stereo input and stereo output for external speakers or headphone options
- Choice of 20 GB or 40 GB (5400 and 7200 rpm) Ultra ATA/100 hard disk drives
- Choice of optical storage device:
 - 24X Max-speed slim CD-ROM drive; or
 - 8X Max-speed slim DVD-ROM drive; or
 - 8X/8X/24X slim CD-RW drive
- Choice of operating systems:
 - Microsoft® Windows® XP Professional¹
 - Microsoft Windows XP Home Edition
 - Microsoft Windows 2000 Professional
 - Microsoft Windows 98 Second Edition
 - Microsoft Windows NT® Workstation 4.0
- Linux enabled:
 - Certified by Linuxcare, (Caldera, Mandrake, Red Hat, SuSE, Turbolinux)

¹With Microsoft Windows 2000 Professional downgrade on CD-ROM.

HP PCs use genuine Windows® Operating Systems
www.microsoft.com/piracy/howtotell

configurations and models

product number	processor	RAM (standard/max.)	cache	hard disk	optical storage	audio	graphics	video RAM	operating system
P4321T	Celeron 950 MHz	64/512 MB SDRAM	128 KB ATC	20 GB	—	Int. AC '97	Intel Integrated 3D Direct AGP	11/11 Integrated	Windows 98
P4322T	Celeron 950 MHz	128/512 MB SDRAM	128 KB ATC	20 GB	24x CD-ROM	Int. AC '97	Intel Integrated 3D Direct AGP	11/11 Integrated	Windows 2000/NT
A7661T	Celeron 1 GHz	128 MB	128 KB	20 GB	—	Int. AC '97	Intel Integrated 3D Direct AGP	11/11 Integrated	Windows XP Home/Windows 2000
A7662	Celeron 1.2 GHz	128 MB	256 KB	20 GB	24X CD-ROM	Int. AC '97	Intel Integrated 3D Direct AGP	11/11 Integrated	Windows XP Pro/Windows 2000

monitors

HP has the right monitor for you at the right price. Detailed information is available at: www.hp.com/go/monitors

CRT monitors	commercial name	hp part number	size/VIS*	dot/pixel pitch	recommended resolution/ max resolution (@xxHz)	horizontal frequency
15" essential	hp 56	P4795A	15.0 in. 13.8 in. viewable area	0.28 mm	800x600 @ 85 Hz 1024x768 @ 60 Hz	30–54 kHz
17" essential	hp 72	D8904A	17.0 in. 15.9 in. viewable area	0.27 mm	1024x768 @ 85 Hz 1280x1024 @ 60 Hz	30–70 kHz
17" professional (flat CRT)	hp p720	D8907A	17.0 in. 16.0 in. viewable area	0.25 mm	1024x768 @ 85 Hz 1280x1024 @ 75 Hz	30–85 kHz
19" essential	hp 92	P4815A	19.0 in. 18.0 in. viewable area	0.26 mm	1280x1024 @ 85 Hz 1600x1200 @ 75 Hz	30–95 kHz
19" professional (flat CRT)	hp p920	D8912A	19.0 in. 18.0 in. viewable area	0.24 mm	1280x1024 @ 85 Hz 1920x1440 @ 70 Hz	29–107 kHz
21" professional (flat CRT)	hp p1130	D4819A	21.0 in. 18.0 in. viewable area	0.24 mm	1600x1200 @ 85 Hz 2048x1536 @ 75 Hz	30–130 kHz

LCD monitors

15" professional	hp l1520	D5063A D5063M	15.0 in. 15.0 in. viewable area	0.297 mm	1024x768 @ 60 Hz 1024x768 @ 75 Hz	N/A
17" professional	hp l1720	D5064M	17.0 in. viewable area	0.264 mm	1600x1200 @ 60 Hz	N/A
18" professional	hp l1820	P4829A	18.0 in. 18.0 in. viewable area.	0.279 mm	1280x1024 @ 60 Hz 1600x1200 @ 60 Hz	N/A

*viewable image size

Go to the HP monitor advisor tool at www.hp.com/go/monitors and select "Help me choose my HP monitor" for assistance in choosing the appropriate HP monitor. When selecting a monitor you should take into consideration the main application running on your PC, or any other criteria such as cost or space requirements.

accessories and services

e-pc 40 accessories

e-pc 40 companions

P1966A	HP e-pc 40 All-in-2 integration kit
P2290A	HP e-pc 40 mounting bracket
P5911A	HP cordless keyboard and mouse kit

memory

P1537A	HP 128 MB (1 x 128 MB) 133 MHz SDRAM non-ECC DIMM
P1538A	HP 256 MB (1 x 256 MB) 133 MHz SDRAM non-ECC DIMM

hard disk drives

P1542A	HP 80.0 GB 7200 rpm Ultra ATA/100
P2813A	HP 40.0 GB 7200 rpm Ultra ATA/100
P1541A	HP 20.0 GB 7200 rpm Ultra ATA/100

communication accessories

P1980A	HP 802.11b USB wireless LAN
P1981A	HP 802.11b wireless LAN access point for SMB
F2135A	HP 802.11b wireless LAN access point for corporate
P1979A	HP 56K V90 external USB e-modem

removable storage

D9510B	HP USB external floppy disk drive
P1977A	HP external USB CompactFlash reader
P5093A	HP USB memory key 32 MB

audio and multimedia

P1534A	HP external amplified speakers, 9.6-watt RMS
P1968A	HP headset with microphone
P1978A	HP external USB web camera
P1535A	HP multimedia monitor base (audio speaker in CRT base)

input devices

C4735B	HP PS/2 Windows keyboard
C4768A	HP USB Internet keyboard
C4736B	HP PS/2 scrolling mouse
C4766A	HP USB scrolling optical mouse

security accessories

D6655C	HP Master Pass Key system kit
D6658B	HP Spare Master Pass Key (x1)
F1645A	HP Kensington lock

service and support

warranty

- A three-year next-business-day on-site international hardware warranty
- A full range of flexible warranty options and Supportpacks
- Unique warranty offer: Instant swap support for same-day service (optional). A combination of spare parts and three-years on-site Supportpack; downgrade to one-year on-site available as option.

support

- 24 hours a day, 7 days a week, there is always a way to reach HP support:
 - Web technical support including BIOS and driver updates, white papers, and additional product information
 - HP three-year free hardware diagnostic phone support (24 hours a day, 7 days a week in U.S.; standard business hours in other regions)

For more information, go to www.hp.com/go/e-pcsupport and click on Assistance to find the telephone number of the HP Customer Care Center near you.

In an effort to provide customers predictable cost structures and business efficiency gain, HP offers a comprehensive set of services, including HP Consulting, HP Outsourcing, HP Support, HP Education, and HP Finance. To find more information, go to the HP Services Web site at www.hp.com/hps.

PC system features

processor	<ul style="list-style-type: none"> Choice of processors: <ul style="list-style-type: none"> Intel Celeron 1 GHz, 1.1 GHz, 1.2 GHz, 1.3 GHz, and 1.4 GHz processor and a 100 MHz front side bus; Intel Pentium III 1.13 GHz and 1.2 GHz processor and a 133 MHz front side bus
chipset	<ul style="list-style-type: none"> Intel 815E chipset with 100 or 133 MHz system bus, includes Advanced Configuration and Power Interface (ACPI) and integrated LAN and graphics
cache	<ul style="list-style-type: none"> 128 KB or 256 KB level-2 integrated cache
memory	<ul style="list-style-type: none"> 64, 128, or 256 MB 133 MHz Synchronous DRAM (non-ECC) standard (PC133 specification): <ul style="list-style-type: none"> Expandable to 512 MB through two memory sockets Auto-detection of memory modules via serial presence detect (SPD)
hard disk drive	<ul style="list-style-type: none"> Choice of hard disk drive technologies: <ul style="list-style-type: none"> 20 GB (5400 rpm) or 20 GB (7200 rpm) Ultra ATA/100 40 GB (5400 rpm) or 40 GB (7200 rpm) Ultra ATA/100
hard disk controller	<ul style="list-style-type: none"> PCI Bus Master Ultra ATA controller: <ul style="list-style-type: none"> Support for Ultra ATA/100, PIO (up to Mode 4), DMA Mode 2, and Ultra DMA Mode
optical storage	<ul style="list-style-type: none"> Choice of: 24X Max-speed slim CD-ROM drive; 8X Max-speed slim DVD-ROM drive; 8X/8X/24X slim CD-RW drive
package	<ul style="list-style-type: none"> Ultra-small, desk space-saving desktop package Sealed and secured package with HP locking mechanism HP Port Control System Easy hard disk drive replacement External AC Adapter
audio subsystem	<ul style="list-style-type: none"> Integrated Analog Devices AD1885 AC '97 CODEC audio 16-bit stereo audio recording and playback Full-duplex audio 92 dB (A-weighted) signal-to-noise ratio (PC-D-A) External connectors for microphone, stereo input and stereo output for amplified speakers or 32-ohm headphones External amplified speakers or headphones as option Audio drivers, including Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional, Microsoft Windows NT Workstation 4.0, and Microsoft Windows 98 Second Edition, are available from the HP desktop PC support Web site at: www.hp.com/go/e-pcsupport
ports	<ul style="list-style-type: none"> One 25-pin parallel port (ECP/EPP bi-directional Centronics supporting IEEE 1284) One 9-pin serial port (16550 UART) Two PS/2 connectors for keyboard and mouse (Mini-DIN) Four Universal Serial Bus (USB) ports for easy reconfiguration, attachment, and hot swapping of external peripherals (two in front, two in rear—all secured) One 15-pin VGA connector on system board Audio ports (stereo-in, stereo-out, microphone-in) One RJ-45 Ethernet port (10Base-T/100Base-TX)
port control system	<ul style="list-style-type: none"> Ports and I/Os are secured from unplugging of plugged devices; prevents unwanted devices from being plugged in at the rear of the system Front USB ports are S/W secured by the BIOS (can be disabled) HP e-pc 40 comes with HP Lock to allow the system to be locked with a key
modem	<ul style="list-style-type: none"> 56 Kb external USB e-modem
communications	<ul style="list-style-type: none"> Integrated Intel PRO/100 VE network connection 10Base-T and 100Base-TX physical layer capabilities Wake on LAN support: Remote Power On, Remote Power Off, Remote Wake-up
keyboard	<ul style="list-style-type: none"> PS/2 keyboard Internet USB keyboard HP cordless keyboard
mouse	<ul style="list-style-type: none"> Choice of PS/2 scrolling mouse, USB scrolling optical mouse, cordless keyboard and mouse kit
upgradability	<ul style="list-style-type: none"> BIOS in flash EEPROM for convenient BIOS upgrades Memory upgradable using SDRAM 133 MHz non-ECC DIMMs
hp e-diagtools	<ul style="list-style-type: none"> Available by pressing F8 after system boot Pre-boot diagnostic Full system diagnostics Online BIOS upgrades Instant Support tuner preloaded

PC system features (continued)

physical characteristics	<ul style="list-style-type: none">• system<ul style="list-style-type: none">– dimensions (without keyboard)– weight (without keyboard)• keyboard<ul style="list-style-type: none">– dimensions (standard)	metric 9.5 cm wide x 28 cm deep x 25 cm high x 266 cm ² footprint 4.5 kg 46.4 cm wide x 17.8 cm deep x 3.3 cm high (5.1 cm standing)	non-metric 3.7 in. wide x 11.0 in. deep x 9.8 in. high 9.9 lb 18.3 in wide x 7.0 in deep x 1.3 in high (2.0 in standing)
environmental conditions	<ul style="list-style-type: none">• temperature<ul style="list-style-type: none">– operating– non-operating• humidity<ul style="list-style-type: none">– operating– non-operating	10° to 35°C –40° to 70°C 15% to 80% RH 8% to 85% RH (noncondensing) at 40°C	50° to 95°F –40° to 158°F 15% to 80% RH 8% to 85% RH (noncondensing) at 104°F
electrical characteristics	<ul style="list-style-type: none">• input voltage<ul style="list-style-type: none">– power supply: manual switch-selectable worldwide– frequency• power consumption	100–240 VAC 50 Hz/60 Hz 51.4 watts	
acoustic emission (sound level)	<ul style="list-style-type: none">• pressure<ul style="list-style-type: none">– idle typical LpA• power<ul style="list-style-type: none">– idle typical LwA	LpA ≤ 24 dB (A) LwA ≤ 3.1 B (A)	

hp e-pc 40



flexible

graphics subsystems

video graphics

Intel 815E integrated graphics chipset*:

- Dynamic Video Memory technology
- 230 MHz RAMDAC
- DDC2B support for Plug-and-Play detection of monitor
- Basic DVD/MPEG-2 playback

* Note: This integrated graphics solution is automatically deselected when an AGP graphics card is installed in the system.

graphics memory

- Local video memory: 8 to 13 MB according to operating system and memory size
 - 11 MB reserved if 64 MB base memory and Microsoft Windows 98 Second Edition
 - 8 MB reserved if 64 MB base memory and Microsoft Windows 2000 Professional or Microsoft Windows NT Workstation 4.0
 - 11 MB reserved if system memory equal to or higher than 128 MB and Microsoft Windows 2000 Professional or Microsoft Windows NT Workstation 4.0
 - 13 MB reserved if system memory equal to or higher than 128 MB and Microsoft Windows 98 Second Edition
- Dynamic allocation of system memory from 7 to 13 MB
- Enhanced performance module known as graphics performance accelerator GPA module (fits in the AGP slot, 4 MB in size)

available graphics drivers

- HP-tested Microsoft Windows XP Professional
- HP-tested Microsoft Windows XP Home Edition
- HP-tested Microsoft Windows 2000 Professional
- HP-tested Microsoft Windows NT Workstation 4.0
- HP-tested Microsoft Windows 98 Second Edition
- Drivers may be preloaded or available from HP desktop PC support Web site: www.hp.com/go/e-pcsupport

recommended resolution

- 24-bit: 1024 × 768 at 85 Hz

minimum resolution

- 8-bit: 640 × 480 at 60 Hz

maximum resolution

- 24-bit: 1280 × 1024 at 85 Hz

HP PCs use genuine Windows® Operating Systems
www.microsoft.com/piracy/howtotell

hp e-pc 40



stable

software

operating system

- **HP supported operating systems:**
Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional, Microsoft Windows NT Workstation 4.0, Microsoft Windows 98 Second Edition
- **Other certified operating systems:**
Novell Client certification for: Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional, Microsoft Windows NT Workstation 4.0, Microsoft Windows 98; Linux distributions: Caldera, Red Hat, SuSE, Turbolinux
- More information about the Linux operating system is available on the HP desktop PC Web site:
www.hp.com/desktops/linux

pre-installed software

- **Operating system:**
Microsoft Windows XP Professional¹, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Professional, Microsoft Windows 98 Second Edition
- **Applications:**
 - Microsoft Internet Explorer
 - HP Tootools agent
 - HP e-Diagtools hardware diagnostic solution
 - HP Instant Support Tuner
 - Every unit includes in the box:
 - HP image creation and recovery CD-ROM (operating system installation and hard disk preparation)
 - HP image library and diagnostics CD-ROM (drivers and utilities installation and diagnostics)

¹ Microsoft Windows XP Professional models come with Microsoft Windows 2000 Professional as option on a downgrade CD.

software available from the Web

- HP Tootools device manager available at www.hp.com/go/tootools

HP PCs use genuine Windows® Operating Systems
www.microsoft.com/piracy/howtotell

communication features

Ethernet LAN interface

- Intel PRO/100 VE network connection
- 10Base-T and 100Base-TX physical layer capabilities
- Wake on LAN support: Remote Power On, Remote Power Off, Remote Wake-up

remote booting

- Multiprotocol firmware to enable pre-boot capabilities in a networked environment:
 - Included in the BIOS
 - Enables remote automated installation and pre-operating system desktop management
 - Supports PXE 2.0 and RPL 2.71 protocols
 - Compliant with today's industry standards: Wired for Management (WfM) 2.0, PCI 2.2.d

available LAN drivers

- Microsoft Windows 2000 Professional, Microsoft Windows NT Workstation 4.0, Microsoft Windows 98 Second Edition
- Latest LAN information and drivers available from HP desktop PC support Web site www.hp.com/go/e-pcsupport

HP PCs use genuine Windows® Operating Systems
www.microsoft.com/piracy/howtotell

ergonomics

ergonomic and environmental design

- Video modes supporting non-interlaced resolutions up to 1600x1200 at ergonomic refresh rates up to 75 Hz
- EPA ENERGY STAR® certified*
- TÜV-GS Mark
- Energy-saving variable-speed fan for temperature control
- Large selection of MPRII—and EPA ENERGY STAR—certified displays
- CFC-free manufacturing process; single plastic for easy recycling
- HP energy saver
- Less than 7W power consumption in Stand By mode (called Suspend to RAM S3 for Microsoft Windows 2000 and Microsoft Windows 98)
- Optimized desk-space-saving desktop package
- Control panel keeps user aware of PC status:
 - On/Off switch integrated in the surface to avoid accidental power-off
 - On/Off green LED (blinks in sleep mode)
 - Hard disk drive activity LED

* Note: As an ENERGY STAR partner, HP has determined that this product meets the ENERGY STAR guidelines for energy efficiency (on appropriate models).

The environmental profile of the product is available at www.hp.com/hpinfo/community/environment/desktop.htm

regulatory compliance and approvals

safety approvals

- C-UL 1950 3rd edition listed
- NOM-019-SCFI-1993
- IRAM
- IEC 60950: 1991 +A1 +A2 +A3 +A4
- EN 60950: 1992 +A1 +A2 +A3 +A4 +A11
- Low Voltage Directive 73/23/EEC, both amended by the Directive 93/68/EEC
- TÜV-GS Mark
- PCBC
- GOST
- MITI
- PSB
- CCIB
- IAA
- AS/NZS3260

electromagnetic compatibility

- FCC part 15 class B
- ICES-003/NMB-003 Class B
- EMC Directive 89/336/EEC amended by Directive 93/68/EEC
- CISPR 22: 1997 Class B, EN 55022: 1998
- CISPR 24: 1997 Class B, EN 55024: 1998
- IEC/EN 61000-3-2: 1995 + A14
- VCCI Class B
- BSMI
- RRL
- C-TICK

hp e-pc 40



easy

hp value-added software

stable & easy to deploy

Adapt your standard software image more quickly and less frequently on your HP professional line PCs.

image creation and recovery CD-ROM	<ul style="list-style-type: none">• HP professional line PCs come with an image creation and recovery CD-ROM in the box. This CD-ROM allows you to recover your pre-installed software:<ul style="list-style-type: none">– Reload the operating system or change your operating system (from Microsoft Windows XP to Microsoft Windows 2000)– Configure the hard disk drive partitions (FAT 16, FAT 32, or NTFS)– Create HP utility partition for HP e-Diagtools re-installation
image library and diagnostics CD-ROM	<ul style="list-style-type: none">• HP professional PCs come with an image library and diagnostics CD-ROM in the box. The HP e-pc 40 can be booted from this CD-ROM in order to run HP e-Diagtools hardware system diagnostics.• The image library and diagnostics CD-ROM also contains HP drivers and system software pre-packaged for unattended installation. These packages can be used locally after an operating system installation (e.g., using the image creation and recovery CD-ROM) or distributed with Microsoft scripting tools.<ul style="list-style-type: none">– To get a complete overview on how to use those CD-ROMs to install/re-install your software, go to: www.support.vectra.hp.com/vectrasupport/level4/38vfa182en/38vfa182en.html– For package updates and additional pre-packaged drivers for distribution with Microsoft SMS, go to: www.hp.com/go/vectrasupport and select "HP Image Library" in the "all-models library" section
long lifecycle	<ul style="list-style-type: none">• 9 months minimum but often more than 12 months.
image stability	<ul style="list-style-type: none">• Program tightly controls the PC hardware revisions, enabling you to create a single software image and avoid changes during the lifecycle of the PC.
proactive notification	<ul style="list-style-type: none">• Informs you of the changes by e-mail, letting you decide whether to upgrade your PCs.
customer image testing service	<ul style="list-style-type: none">• HP offers a fee-based customer image testing service. The service provides consulting on image build and full image analysis prior to PC deployment. The qualified image is thereafter tested at each hardware roll, providing the customer with customized notification and, if necessary, image patching. <p>More details on HP software stability can be obtained at: www.hp.com/desktops/vectra/stability/ For more information on the customer image testing service, please ask your local HP representative.</p>

stable & easy to deploy (continued)

Rembo Auto Deploy (software image deployment solution)

- To easily deploy hundreds of HP PCs and laptops simultaneously, HP recommends Rembo Auto Deploy (www.rembo.com). Rembo Auto Deploy is an innovative software deployment solution based on the PXE remote boot industry standard.
- It offers fully automated hard disk software image installation, with the unique capability to dynamically choose the operating system, the business applications, and the end-user data parameters you want to use. HP PCs and laptops installed by Rembo Auto Deploy also benefit from a customized recovery CD-ROM that mirrors their deployed hard disk software image. If your software setup is still manual, too slow, and missing flexibility, Rembo Auto Deploy is your solution of choice.
- HP uniquely provides “HP rapid deployment solution” services based on Rembo Auto Deploy to help you re-engineer your IT process of staging new PCs (HP consulting services) or update your existing installed base of PCs (HP outsourcing selective services).
- HP is actually using Rembo Auto Deploy to deploy the hard disk software images of its 86,000 employees’ PCs worldwide and builds its service proficiency on its own IT experience. Rembo Auto Deploy can also be licensed directly from www.rembo.com. Check out what we have done for others and what we could do for you with Rembo Auto Deploy at: www.hp.com/hpinfo/newsroom/feature_stories/easyeverything.htm

Rembo Auto Backup

- To instantly back up and restore your HP PC and laptop software, HP recommends Rembo Auto Backup (www.rembo.com). Rembo Auto Backup is a new, innovative, and smart software backup and recovery solution, run locally from a client PC hard disk. Backup operation of PCs can be managed remotely and securely, with incremental backup points and IT control over end-user usage. With Rembo Auto Backup, the complete process of backing up and restoring does not require any manual intervention.
- HP uniquely provides services based on Rembo Auto Backup to help you re-engineer your IT process of supporting and operating new or existing PCs (those services are part of “HP rapid deployment solution”—see bullet 3 above). HP is currently providing the Rembo Auto Backup solution to its 86,000 worldwide employees to use as their standard software recovery method, and to build its service proficiency on its own IT experience. Rembo Auto Backup can also be licensed directly from www.rembo.com. Check out what we have done for others and what we could do for you with Rembo Auto Backup at: www.hp.com/hpinfo/newsroom/feature_stories/easyeverything.htm

PC personality migration solution*

- HP provides services to help customers migrate user data and settings from their current PC to the new PC. At the heart is a powerful industry-standard tool that allows quick and effective migration leading to faster deployment, productivity enhancements, and end-user satisfaction. It is possible to migrate settings across two different Microsoft operating systems and even across two versions of Microsoft Office. All major standard applications are supported, while custom development is used to port customer internal applications. For more details please ask your HP representative.

*Note: U.S. only

hp value-added software

easy to manage

HP professional line PCs with HP Tiptools provide the inventory information you need and the most efficient way to decrease desktide visits.

inventory management	Remote and central inventory <ul style="list-style-type: none">• Auto-discovery of devices• Automated collection of inventory• Inventory database, which allows for creation of custom queries and reports by device type and group• PC search and selection• Standard reports (including asset location, configuration)• Report of Microsoft Windows 2000 Professional and Microsoft Windows XP ready PCs (this report includes PCs that match the minimum hardware requirements and are certified)• Access to detailed configuration information• Customizable asset string• Support for larger environments (up to 35,000 nodes per device manager server)
configuration management	Remote boot control <ul style="list-style-type: none">• Scheduled system reboot• Scheduled system power-off• Scheduled system power-on Remote and central system software updates <ul style="list-style-type: none">• HP Tiptools agent deployment and update (agent deployment is only available with Microsoft Windows NT Workstation 4.0, Microsoft Windows 2000 Professional, or Microsoft Windows XP, within the same Microsoft Windows NT domain)• BIOS update• Drivers update (video, hard disk drive, and LAN card)• Drivers, BIOS, and utilities revision management• Selected HP LaserJet printers installation• Hardware diagnostics deployment and update (HP e-Diagtools) File importing/password administration <ul style="list-style-type: none">• Third-party trap import/configuration• IP/MAC address file importing• Enhanced HP Tiptools user password administration
compliance with industry standards	Desktop Management Interface (DMI) <ul style="list-style-type: none">• Provided with Tiptools agent for Microsoft Windows 9x and Microsoft Windows NT Workstation 4.0 models. HP professional line PCs have the most comprehensive DMI implementation in the industry.<ul style="list-style-type: none">– DMI 2.0 compliant– HP DMI instrumentation for PC system information, monitor, LAN cards, security, devices, drivers, BIOS, end-user information, and more– Support for all DMI management applications including Intel LANDesk, McAfee ZAC, and more• HP Tiptools can uniquely<ul style="list-style-type: none">– Power on DMI on HP and non-HP PCs– Read DMI information from HP and non-HP PCs– Report DMI alerts from HP and non-HP PCs Windows Management Interface (WMI) <ul style="list-style-type: none">• Provided with Tiptools agent for Microsoft Windows 2000 and Microsoft Windows XP models. HP professional line PCs have the industry-leading WMI implementation:<ul style="list-style-type: none">– Full WMI instrumentation– Common Tiptools agent and WMI instrumentation across Vectra, OmniBook, and e-pc• First to implement WMI instrumentation for Intel IPsec LAN card adapters, HP Tiptools can uniquely:<ul style="list-style-type: none">– Power on WMI on HP professional line PCs and non-HP PCs– Read WMI information from HP professional line PCs and non-HP PCs Wired for Management (WfM) <ul style="list-style-type: none">• HP professional line PCs are WfM 2.0 ready:<ul style="list-style-type: none">– Provide easy remote power-on (RPO/Power on LAN), remote power-off, and remote reboot• HP professional line PCs are PXE 2.0 ready:<ul style="list-style-type: none">– Provide easy Microsoft Windows 2000 Workstation software deployment with Microsoft Windows 2000 remote installation service Section 508/Accessibility <ul style="list-style-type: none">• Tiptools WMI agent is compatible with Microsoft Windows 2000 Narrator software

easy to manage (continued)

performance management/alerts

- Resource bottleneck analysis
- System Performance Advisor
- CPU, memory, and disk I/O performance monitoring and trend analysis for Microsoft Windows NT Workstation 4.0, Microsoft Windows 2000, and Microsoft Windows 98 Second Edition systems
- PC remote control (Symantec pcAnywhere trial version)
- Custom reports and tables
- Enhanced notification actions and action triggers
- Most frequent alerts report
- Enhanced action-on-alerts via e-mail and paging (paging available in U.S.)
- Integration with Instant Support to provide class issues alert and report

hp toptools bridges

- The HP Tootools bridges enable full integration with complementary applications. Bridges are available with the following applications:
 - HP OpenView NNM (Microsoft Windows NT Workstation 4.0)
 - HP OpenView NNM (HP-UX)
 - HP OpenView NNM (Solaris)
 - Microsoft SMS 2.0/2.01
 - IBM Tivoli NetView (Microsoft Windows NT Workstation 4.0)
 - IBM Tivoli Enterprise Management (Microsoft Windows NT Workstation 4.0, HP-UX, Solaris)
 - Computer Associates Unicenter TNG (Microsoft Windows NT Workstation 4.0)
 - For more information about HP Tootools value pack and HP Tootools bridges, go to: www.hp.com/go/toptools
- More details on HP PCs manageability and HP Tootools can be obtained at: www.hp.com/go/pcmanageability

hp e-pc 40



global

hp value-added software

easy to support

HP professional line PCs are easy to diagnose, troubleshoot, and service, greatly empowering your help desk resources and providing a better user experience.

fault management	Fault diagnostics <ul style="list-style-type: none">• HP e-Diagtools (local and remote)• On-line video and LAN cards (3Com, Intel, Matrox) Remote and local alert reporting <ul style="list-style-type: none">• Power-On Self-Test (POST)• Chassis intrusion detection• IDE hard disk drive SMART failure warning Resources monitoring <ul style="list-style-type: none">• CPU• Memory• Hard disk drives• Networking card (requires SNMP services to be installed)
e-diagtools	HP e-Diagtools hardware diagnostics solution <ul style="list-style-type: none">• Provides preboot diagnostics, system configuration diagnostics, and a complete test suite of the system hardware components• Some errors found by e-Diagtools can be transformed into a sound signal emitted by the pre-boot diagnostic chip and sent over a phone line to your HP support provider for immediate troubleshooting• Immediate troubleshooting of e-Diagtools error codes can also be accessed manually or automatically (through HP virtual call assistant) from www.hp.com/desktops/diagtools• Test results and system configuration are stored in a support ticket file for further access from your HP support provider, if necessary• e-Diagtools can be remotely launched by HP Toptools device management software (requires HP Toptools agent on your system) or HP Instant Support web portal, or upon HP support specialist request
ease of setup and servicing	Easy to open, repair, and expand, with built-in intuitiveness <ul style="list-style-type: none">• Features include:<ul style="list-style-type: none">– Documentation—HP e-pc 40 Quick Start card included– Cover—tool-free, intuitive removal– System board—direct access to upgradable memory slots– Hard disk drive—easy removal, direct access, tool-free removal of hard disk drive cage– Color-coded connectors—for simplified PC assembly• Hassle-free security with HP master pass key system—chassis lock with configurable master setting (optional)• BIOS stored in flash EEPROM for fast and easy upgrades• Setup program in flash ROM• Automatic detection of major components at power-on• Power-On Self-Test (POST) displays startup errors, suggests solutions• All models are local area network (LAN) ready for easy integration into the network• HP e-Diagtools: fast, easy-to-use hardware diagnostics for quick system troubleshooting• LAN hardware diagnostics
instant support	HP Instant Support automates and speeds the resolution of computing problems, freeing you from time-consuming diagnostic chores and allowing you to focus on more important business activities. Featuring web-based diagnosis and resolution capabilities, HP Instant Support can be personalized to meet your business needs and deliver the support experience that works for you. For more information, go to: www.hp.com/go/instant-support More details on HP PC supportability can be obtained at: www.hp.com/go/pcsupportability

hp value-added software

security ready

HP professional line PCs reduce security risks.

physical security

- Boot Block BIOS Flash hardware protected
- HP physical security to protect PCs from theft:
 - Optional HP master pass key lock (lock must be purchased separately)
 - Kensington lock provision
 - Two BIOS-level passwords
 - Chassis Intrusion detection

security management

Remote and central system boot configuration

- Enable/Disable start from hard disk
- Enable/Disable start from floppy disk
- Enable/Disable start from CD-ROM drive
- Enable/Disable start from network drive
- Enable/Disable Remote Power-On and Wake on LAN

Remote and central security configuration

- Enable/Disable floppy disk drive
- Enable/Disable writing on floppy disk drive
- Enable/Disable CD-ROM, DVD-ROM, CD-RW drives (requires Microsoft Windows 2000 Professional or Microsoft Windows NT Workstation 4.0)
- Enable/Disable serial and parallel ports
- Enable/Disable USB ports

Remote and central security control

- Complete system lock
- System protection (power-on and reset buttons)

Remote and central security management

- Enable/Disable start with keyboard locked
- System administrator and user password change
- Enable/Disable user password on power-on
- System SNMP community password change
- Report of PCs not password-protected

More details on HP professional line PC security can be obtained at: www.hp.com/go/pcsecurity



Whatever your business need, HP has the monitor for you. Optimized for your HP desktop PCs, HP monitors deliver the performance you need and the quality you expect, at the right price.

www.hp.com/go/monitors

For the latest information on HP professional line e-pcs, visit HP's Web site at:

www.hp.com/go/desktops



Windows XP Ready PC*

for more product information
visit **www.hp.com/go/desktops**

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finance: HP finance plans provide all the benefits of new technology without the risk or cost of ownership. For details, call toll-free 888-999-HPTF (4783).

accessibility: HP is committed to providing products and services that are accessible to people with disabilities. For more information, please visit **www.hp.com/accessibility** or call 888-259-5707.

* This PC meets the minimum hardware requirements to run Microsoft Windows XP. Hardware drivers, if necessary, are available from Hewlett-Packard upon the release of Microsoft Windows XP.

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