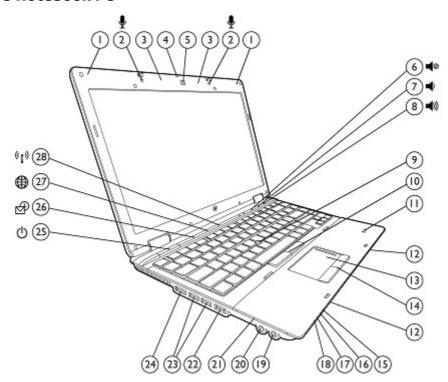
Overview

HP ProBook 6455b Notebook PC



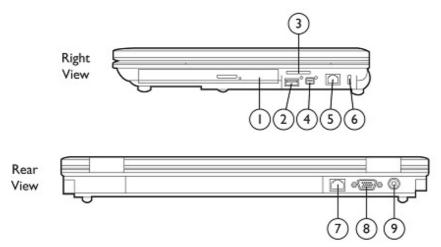
- WWAN antennas (select models)
- 2. Dual-microphone array with optional webcam only*
- 3. WLAN antennas
- 4. Webcam LED indicator
- 5. Optional 2 MP webcam
- 6. Volume mute button with LED indicator
- 7. Volume down button with LED indicator
- 8. Volume up button with LED indicator
- 9. Optional pointstick
- 10. Pointstick pick buttons (with optional pointstick)
- 11. Optional HP Fingerprint Sensor
- 12. Stereo speakers
- 13. Touchpad with scroll zone
- 14. Touchpad pick buttons

- 15. Hard drive activity / HP 3D DriveGuard LED indicator
- 16. Battery charging LED indicator
- 17. Power/standby LED indicator
- 18. Wireless on/off LED indicator
- 19. Stereo headphone/line out
- 20. Stereo microphone/line in
- 21. ExpressCard/54 slot or optional Smart Card Reader
- 22. eSATA/USB combo port
- 23. (2) USB 2.0 port
- 24. DisplayPort
- 25. Power button with LED indicator
- 26. QuickLook button
- 27. QuickWeb button
- 28. Wireless on/off button with LED indicator



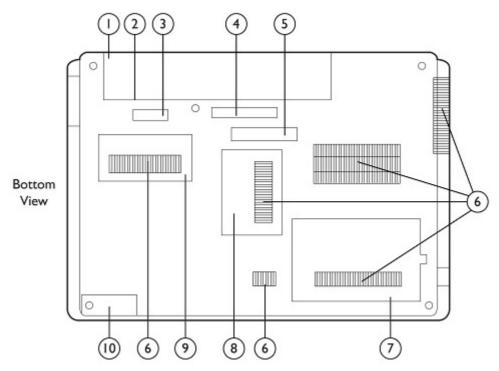
^{*} Models without webcam have single integrated microphone on left side of display panel.

Overview



- 1. Upgrade Bay (optical drive or second hard drive)
- 2. (1) USB 2.0 port
- 3. Media Card Reader
- 4. 1394a port
- 5. RJ-11/modem port

- 6. Lock slot
- 7. RJ-45/Ethernet port
- 8. VGA/external monitor connector
- 9. Power connector



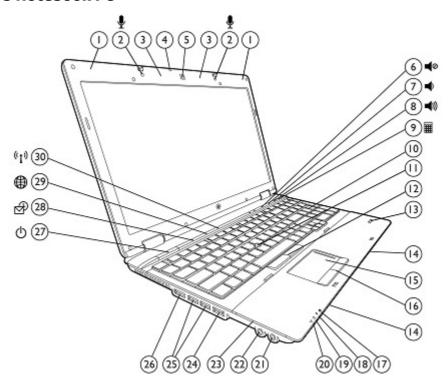
- 1. Battery bay
- 2. SIM slot for WWAN (select models) inside battery bay
- 3. Battery release latch
- 4. Docking connector
- Secondary battery connector

- 6. Vents
- 7. Hard drive bay
- 8. Memory module compartment
- 9. WLAN/WWAN module compartment (select models)
- 10. Bluetooth module compartment



Overview

HP ProBook 6555b Notebook PC



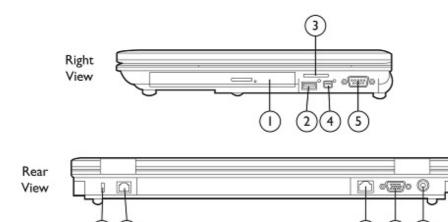
- 1. WWAN antennas (select models)
- 2. Dual-microphone array with optional webcam only*
- 3. WLAN antennas
- 4. Webcam LED indicator
- 5. Optional 2 MP webcam
- 6. Volume mute button with LED indicator
- 7. Volume down button with LED indicator
- 8. Volume up button with LED indicator
- 9. Calculator button
- 10. Separate numeric keypad
- 11. Optional pointstick
- 12. Pointstick pick buttons (with optional pointstick)
- 13. Optional HP Fingerprint Sensor
- 14. Stereo speakers
- 15. Touchpad with scroll zone

- 16. Touchpad pick buttons
- 17. Hard drive activity / HP 3D DriveGuard LED indicator
- 18. Battery charging LED indicator
- 19. Power/standby LED indicator
- 20. Wireless on/off LED indicator
- 21. Stereo headphone/line out
- 22. Stereo microphone/line in
- 23. ExpressCard/54 slot or optional Smart Card Reader
- 24. eSATA/USB combo port
- 25. (2) USB 2.0 port
- 26. DisplayPort
- 27. Power button with LED indicator
- 28. QuickLook button
- 29. QuickWeb button
- 30. Wireless on/off button with LED indicator



^{*} Models without webcam have single integrated microphone on left side of display panel.

Overview

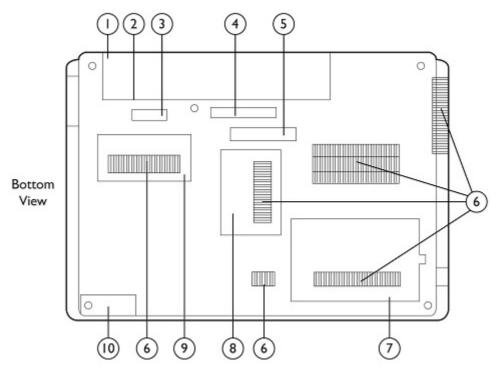


- 1. Upgrade Bay (optical drive or second hard drive)
- 2. (1) USB 2.0 port
- 3. Media Card Reader
- 4. 1394a port
- 5. Serial port

- 6. Lock slot
- 7. RJ-11/modem port
- 8. RJ-45/Ethernet port
- 9. VGA/external monitor connector

8

10. Power connector



- 1. Battery bay
- 2. SIM slot for WWAN (select models) inside battery bay
- 3. Battery release latch
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- Secondary battery connector

- 6. Vents
- 7. Hard drive bay
- 8. Memory module compartment
- 9. WLAN/WWAN module compartment (select models)
- 10. Bluetooth module compartment



Overview

At A Glance

- Genuine Windows 7 versions and Genuine Windows Vista versions available through downgrade rights from Windows 7, or FreeDOS
- New AMD architecture
 - ATI Mobility Radeon[™] 4250 HD Graphics
 - O AMD Phenom™ II Quad-Core, Triple-Core, or Dual-Core Mobile Processor, AMD Turion™ II Dual-Core Mobile Processor, or AMD Athlon™ II Dual-Core Processor
- Widescreen LED-backlit HD or HD+ display
 - HP ProBook 6455b: 14.0-inch diagonal
 - HP ProBook 6555b: 15.6-inch diagonal
- Starting at 5.0 lb/2.26 kg (6455b) or 5.5 lb/2.51 kg (6555b)
- Flexible wireless connectivity options:
 - Integrated HP un2420 EV-DO/HSPA Mobile Broadband Module provides worldwide Gobi mobile Internet technology with GPS
 - O Integrated Broadcom 802.11 a/b/g/n or b/g/n wireless LAN module
 - Bluetooth® v2.1+EDR
- Touchpad with scroll zone; optional pointstick
- Full-sized spill-resistant keyboard with drains; full separate numeric keypad on the HP ProBook 6555b
- Touch-sensitive controls for HP QuickLook 3, HP QuickWeb, wireless on/off, mute, volume down, volume up; calculator button
 on HP ProBook 6555b
- Choice of 9-cell (93 WHr) or 6-cell (55 WHr and 47 WHr) primary battery, or HP Long Life 6-cell (51 WHr) battery
- HP Long Life 3-cell (47 WHr) Battery available as after-market option
- Optional external batteries: HP Ultra-Capacity Battery, HP Extended Life Battery
- Optional integrated 2 MP Webcam with dual-microphone array
- Choice of 7200 rpm user-removable hard drive up to 320 GB with HP 3D DriveGuard protection, or 128 GB Solid State Drive
- Upgrade Bay for optical drive or optional second hard drive
- Media Card Reader
- New eSATA/USB 2.0 combo port
- Reliability with HP 3D DriveGuard, magnesium alloy support structure, HP DuraFinish, and spill-resistant keyboard with drains
- Security features including HP ProtectTools with Central Management, Computrace LoJack Pro ready, HP SpareKey, HP Disk Sanitizer, TPM 1.2;* optional Smart Card Reader (replaces ExpressCard slot), optional HP Fingerprint Sensor, and optional HP Privacy Filter
- HP Power Assistant allows you to conserve power, stretch battery run-time, accurately monitor your reported power need, and report workforce power consumption.
- HP QuickLook 3 for instant access to e-mail, calendar, and contacts; HP QuickWeb for fast access to the web
- HP DayStarter displays your calendar and battery charge while Windows starts up
- HP Support Assistant helps maintain your PC performance and resolve problems with automated updates and tune-ups, onboard diagnostics, and guided assistance.
- Options include HP Advanced Docking Station, HP Docking Station, HP USB 2.0 Docking Station, and HP Essential USB 2.0 Port Replicator
- BFR/PVC-free**, ENERGY STAR qualified and EPEAT Gold registered in the U.S. EPEAT status varies by country- please see
 epeat.net.

^{**} This notebook is brominated flame retardant and polyvinyl chloride-free (BFR/PVC-free) on notebooks that are non-WWAN; meeting the evolving definition of 'BFR/PVC-free' as set forth in the "iNEMI Position Statement on the 'Definition of Low-Halogen' Electronics (BFR/CFR/PVC-Free)". Plastic parts contain < 1000 ppm (0.1%) of bromine [if the Br source is from BFRs] and < 1000 ppm (0.1%) of chlorine [if the Cl source is from CFRs or PVC or PVC copolymers]. Power supply and power cords are not BFR/PVC-free. Service parts



^{*} TPM module disabled where not permitted by law (for example, Russia and China).

HP ProBook 6455b Notebook PC HP ProBook 6555b Notebook PC

QuickSpecs

Overview

after purchase may not be BFR/PVC-free.



Standard Features (availability may vary by country)

Processors

AMD Phenom II Quad-Core Mobile Processor N970 (2.2 GHz, 35W, 2 MB L2 cache)
AMD Phenom II Quad-Core Mobile Processor N950 (2.1 GHz, 35W, 2 MB L2 cache)
AMD Phenom II Quad-Core Mobile Processor N930 (2.0 GHz, 35W, 2 MB L2 cache)
AMD Phenom II Triple-Core Mobile Processor N870 (2.3 GHz, 35W, 1.5 MB L2 cache)
AMD Phenom II Triple-Core Mobile Processor N850 (2.2 GHz, 35W, 1.5 MB L2 cache)
AMD Phenom II Triple-Core Mobile Processor N830 (2.1 GHz, 35W, 1.5 MB L2 cache)
AMD Phenom II Dual-Core Mobile Processor N660 (3.0 GHz, 35W, 2 MB L2 cache)
AMD Phenom II Dual-Core Mobile Processor N640 (2.9 GHz, 35W, 2 MB L2 cache)
AMD Phenom II Dual-Core Mobile Processor N620 (2.8 GHz, 35W, 2 MB L2 cache)
AMD Turion II Dual-Core Mobile Processor N530 (2.5 GHz, 35W, 2 MB L2 cache)

AMD Athlon II Dual-Core Processor for Notebook PCs P360 (2.3 GHz, 25W, 1 MB L2 cache) AMD Athlon II Dual-Core Processor for Notebook PCs P340 (2.2 GHz, 25W, 1 MB L2 cache) AMD Athlon II Dual-Core Processor for Notebook PCs P320 (2.1 GHz, 25W, 1 MB L2 cache)

AMD Turion II Dual-Core Mobile Processor P520 (2.3 GHz, 25W, 2 MB L2 cache)

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

Operating System

Preinstalled Genuine Windows 7 Professional Edition 32*

Genuine Windows 7 Professional Edition 64*

FreeDOS

Supported Genuine Windows 7 Enterprise 32*

Genuine Windows 7 Enterprise 64*
Genuine Windows 7 Ultimate 32*
Genuine Windows 7 Ultimate 64*
Genuine Windows Vista Enterprise 32**
Genuine Windows Vista Enterprise 64**
SuSE Linux Enterprise Desktop 11

* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

** Certain Windows Vista product features require advanced or additional hardware. See: http://www.microsoft.com/windowsvista/getready/hardwarereqs.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.

Chipset AMD M880G Chipset

Graphics ATI Mobility Radeon HD 4250

Certified

Microsoft DirectX 10.1 capable



Standard Features (availability may vary by country)

Display Internal HP ProBook 6455b:

14.0-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution))

HP ProBook 6555b:

15.6-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution) 15.6-inch diagonal LED-backlit HD+ WVA anti-glare (1600 x 900 resolution)

HP Privacy Filter support

External Up to 32-bit per pixel color depth

DisplayPort supports resolutions up to 2560 x 1600, 30-bit color depth at 60

Hz, and full HD (1920 x 1080) monitors, 24-bit color depth at 120 Hz **VGA** port supports resolutions up to 2048 x 1536 at 75 Hz, and lower

resolutions at up to 100 Hz

DVI-D (single link) video signal available through DVI port in optional HP

Docking Station (sold separately)

supports resolutions up to 1600 x 1200 at both full and reduced

blanking, and 1920 x 1200 at reduced blanking

NOTE: Resolutions are dependent upon monitor capability, and resolution and

color depth settings.

Memory Standard DDR3 PC3-10600 SDRAM (1333 MHz)*

Two SODIMM slots supporting dual-channel memory

1024 MB, 2048 MB and 4096 MB SODIMMs

Maximum Upgradeable to 8192 MB with 4096 MB SODIMMs in slots 1 and 2

Dual-channel Maximized dual-channel performance requires SODIMMs of the same size and

speed in both memory slots.

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

Communications

Integrated Marvell Gigabit Ethernet PCI Controller (10/100/1000 NIC)*

56K V.92 modem**



^{*} Memory speed is processor dependent.

^{*} The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

^{**} Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.

Standard Features (availability may vary by country)

Wireless Devices

Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) requires a Windows operating system and is available in select countries as a standard, factory configurable feature only. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

HP un2420 EV-DO/HSPA

Integrated mobile broadband module with Gobi global mobile Internet Mobile Broadband Module technology that provides connectivity to both CDMA (EVDO) and UMTS (HSPA)

networks. It also provides GPS functionality for various mapping applications and security applications such as Computrace LoJack Pro Premium for HP

ProtectTools.

NOTE: Separately purchased mobile network operator service is required. Two 850/900/1575/1800/1900/2100 MHz antennas integrated in the top of the display panel support current and future WWAN technologies.

All 802.11 integrated wireless LAN options

Wi-Fi Certified*

Cisco Compatible Extensions support

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) and WPA2 support

802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC,

PEAP-MSCHAPv2, and LEAP

Advanced Encryption Standard (AES) support Dual antennas integrated in the display enclosure

Broadcom 4322AGN 802.11a/b/g/n WiFi Adapter

Integrated support for 802.11 a, b, g, and n

Up to 300 mbps data rate

Broadcom 4313GN 802.11b/g/n

Integrated support for 802.11 b, g, and n

Up to 72 mbps data rate

WiFi Adapter **HP Integrated Module** with Bluetooth 2.1+EDR

Bluetooth Specification v2.1+EDR compliant Works with a wide range of Bluetooth devices

Wireless Technology

Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, 12 function keys, and 19.05 x 19.05 mm key pitch (center-tocenter spacing). U.S. and International key layouts are available. Other features include hotkeys for instant access to power conservation and brightness. The HP ProBook 6555b Includes a separate numeric keypad.

Touch-sensitive controls Touch-sensitive controls provide easy access to the following features: HP QuickLook 3, HP QuickWeb, wireless on/off, volume mute, volume up, volume down. The HP ProBook 6555b also features a calculator button



Standard Features (availability may vary by country)

Pointing device Touchpad with scroll zone, two pick buttons

Optional pointstick with two additional pointstick buttons

Expansion card slots

ExpressCard/54 slot

Supports ExpressCard/54 and ExpressCard/34

or

Optional Integrated Smart Card Reader

Compatible with ISO 7816 compliant Smart Cards

PC/SC interface support

(replaces ExpressCard/54

slot)

Media Card Reader

Supports SD (Secure Digital), HC-SD (High Capacity Secure Digital), MultiMedia Card, HS-MultiMedia Card (MultiMedia Card Plus), Sony Memory Stick, Sony

Memory Stick Pro, Memory Stick Duo*, Picture card

Additionally, the following cards are supported via passive adapters (sold separately): Mini-Secure Digital (Mini-SD), Transflash (Micro-SD), Reduced size Multimedia card (RS-MultiMedia Card), Reduced size Dual voltage Multimedia card, MultiMedia Card Mobile Cards, MultiMedia Card Micro Cards, Memory Stick Duo (MS Duo)*, Memory Stick Duo Pro (MS Duo Pro)*, Memory Stick M2

Internal Storage

Hard drives

160/250/320 GB 7200 rpm SMART SATA II

320 GB 7200 rpm SMART SATA II Self Encrypting Drive

NOTE: These hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.

HP 3D DriveGuard

(Windows only)

The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is

detected.

Solid State Drive

128 GB

Upgrade Bay

Fixed 12.7 mm SATA

optical drive

Weight saver

DVD+/-RW SuperMulti DL LightScribe Drive

DVD-ROM Drive

Memory Stick Duo Adapters are required and sold separately. Inserting a Memory Stick Duo Card directly into your notebook could damage the memory card and/or notebook.

Standard Features (availability may vary by country)

Interfaces ExpressCard/54 slot One (or optional Smart Card Reader)

External monitor Two – (1) DisplayPort, (1) VGA

1394aOneStereo microphone inOneStereo headphone/lineOne

out

Power connector One
RJ-11/modem One
RJ-45/Ethernet One
USB 2.0 Three
eSATA/USB 2.0 combo One

Serial port One (HP ProBook 6555b only)

Docking connector One **Secondary battery** One

connector

Audio/Visual HD audio (HP Premier Sound)

Integrated stereo speakers

Integrated microphone (dual-microphone array when equipped with optional 2 MP webcam)

Touch-sensitive controls for volume up, volume down, and mute

Stereo headphone/line out Stereo microphone/line in

Optional 2 MP webcam

- Supports videoconferencing and still image capture
- Large image sensor for excellent colour matching and good low light sensitivity
- Up to 30 frames/sec
- Fixed focus lens
- Video capture at VGA, 1.3 Mpixel, and 2 Mpixel resolutions
- 16-bit true colour (camera sensors output YCrCb format among others)



Standard Features (availability may vary by country)

Software

Preinstalled software with Windows operating system

HP Recovery Manager (available with Windows 7 or Vista only)

HP Support Assistant (available with Windows 7 or Vista only)

HP ProtectTools Security Manager
HP ProtectTools for Central Management

HP Quick Launch Buttons Software

HP QuickLook 3

HP QuickWeb

HP Power Assistant

HP Connection Manager 3.1

HP Wireless Assistant

HP DayStarter

Microsoft Office 2010 preloaded (purchase of a Product Key required to activate a full Office 2010 suite)*

McAfee Total Protection* PDF Complete Special Edition**

Intervideo WinDVD - DVD Player (select models)

Roxio Creator Business (select models) HP Webcam Software (select models)

Skype

WinZip 14.5 trial

Additional software available from the web

HP SoftPaq Download Manager

HP Recovery Manager

Models shipped with Windows 7 or Windows Vista include HP Recovery Manager. HP Recovery Manager enables fast recovery of the factory preinstalled image if the system becomes corrupted or if important system files are accidentally deleted. Up to 10 GB of the hard drive is reserved for the system recovery software.



^{*} Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and http://www.office.com.

^{** 60} day trial period for McAfee Total Protection for Small Business software. Internet access required to receive updates. First update included. Subscription required for updates thereafter.

^{*** 60} day trial; purchase license afterwards for full functionality

Standard Features (availability may vary by country)

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| • | CU | uı | ıty |

Standard Features HP ProtectTools Security Manager

Enhanced Pre-Boot Security

HP SpareKey One-Step Logon Setup Password

TPM 1.2 Embedded Security Chip*

TPM Enhanced DriveLock*

HP Disk Sanitizer Lock slot

Support for Computrace** LoJack Pro for HP ProtectTools

Optional Features Smart Card Reader Compatible with ISO 7816 compliant Smart Cards

(replaces ExpressCard/54 PC/SC interface support

slot)

HP Fingerprint Sensor Enhanced sensor scans the fingerprint to uniquely

identify and authenticate a person.

Narrows viewing area so that screen data is **HP Privacy Filter**

visible only to persons directly in front of the

monitor.

Premium for HP ProtectTools with GPS

Tracking

Computrace LoJack Pro** Subscription based security solution providing the ability to track, initiate physical recovery, conduct asset management, and perform remote data delete by utilizing GPS technology. GPS

functionality requires HP un2420 EV-DO/HSPA

Mobile Broadband Module.

For more information on HP security solutions refer to: http://www.hp.com/go/security.

HP ProtectTools Security Manager with Central Management

HP ProtectTools Security Manager is the security platform for business notebooks and desktops. The HP ProtectTools Security Manager is an extensible client security console that delivers enhanced security capabilities through add-on software modules. The following modules are available on the hard drive (also downloadable from the web) and can be configured in Software Setup:

- Credential Manager for HP ProtectTools
- Device Access Manager for HP ProtectTools
- Drive Encryption for HP ProtectTools
- File Sanitizer for HP ProtectTools
- Privacy Manager for HP ProtectTools (Chat & Sign)
- Embedded Security for HP ProtectTools
- Computrace LoJack Pro for HP ProtectTools

HP ProtectTools is now centrally manageable with the capability to manage notebooks from a single point. Security is management ready out of the box, in partnership with Digital Persona. New features address requirements that customers expect from a centrally managed security solution such as user provisioning, credential reset, and credential revocation.

HP ProtectTools provides two separate management solutions, targeted at the enterprise and the SMB:



^{*} TPM module disabled where use is restricted by law; for example, Russia and China.

^{**} The Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription with terms ranging from one to five years.

Standard Features (availability may vary by country)

- Digital Persona Pro AD: Designed for the enterprise customer. Integrates with Active Directory and
 gives IT Managers the ability to provision users, create login policies based on passwords,
 biometrics or smartcards. Management features also include remote credential recovery in case the
 user forgets the password, loses the smartcard or cannot use the fingerprint reader for any reason.
 In addition, advanced auditing capabilities are also built in. Digital Persona Pro AD is available now.
- Digital Persona Pro Workgroup: Designed for the small business customer. Provides features similar to the Active Directory version, but for workgroups. Workgroup activation is built into HP ProtectTools, and activation of up to 5 seats is completely free.

Power Supply

External 90-watt Smart AC adapter, 6-foot (1.8 meter) power cord included.

Total length including external AC adapter is 12 feet (3.66 meter).

HP Fast Charge*

*HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to the 9-cell primary battery, the 12-cell Ultra-Capacity batteries, or the HP Long Life Battery.

Battery

Primary battery HP 9-cell (93 WHr) Li-Ion battery

HP 6-cell (55 WHr) Li-Ion battery HP Long Life 6-cell (51 WHr) battery*

Optional HP Long Life

Battery*

3-cell (47 WHr) Li-Ion battery

Optional HP Extended Life 8-cell (52 WHr) Li-Ion battery

Battery

Optional HP Ultra-

optional HP Extended Life

Battery

12-cell (95 WHr) Li-Ion battery

Capacity Battery

* The 3-year limited warranty on the HP Long Life Battery is only available on platforms with a 3-year system warranty. The HP Long Life Battery will carry a limited 1-year warranty on platforms with a 1-year system warranty.

Battery Life

HP 9-cell (93 WHr) Primary HP 6-cell (55 WHr) Primary **HP ProBook 6455b** Primary battery Up to 9 hours Up to 5 hours and 30 minutes Primary battery and Up to 14 hours and 30 minutes Up to 11 hours optional HP Extended Life Battery Primary battery and Up to 15 hours Up to 18 hours optional HP Ultra-Capacity Battery **HP ProBook 6555b** Primary battery Up to 8 hours Up to 4 hours 30 minutes Up to 11 hours 30 minutes Up to 9 hours Primary battery and



Standard Features (availability may vary by country)

Primary battery and

Up to 15 hours 45 minutes

Up to 13 hours 30 minutes

optional HP Ultra-Capacity

Battery

System Standby Time Up to 1 week

Power Conservation ATI PowerPlay technology

Hibernation Standby

ACPI compliance

Docking and Stands HP 90W Docking Station

HP 120W Advanced Docking Station

HP USB 2.0 Docking Station

HP Essential USB 2.0 Port Replicator HP Dual Hinge Notebook Stand HP Display & Notebook Stand HP Adjustable Display Stand HP Adjustable Dual Display Stand

NOTE: Some HP Docking stations may not support every feature of some HP Notebook models. Please refer to the individual docking station documentation for specific information about supported features.

Service and Support

HP Services offers limited 3-year, 1-year and 90-day warranty options depending on country. On-site service and warranty upgrades are also available. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: http://www.hp.com/hps/carepack.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Centre for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp.



Options (availability may vary by country)

NOTE: Options/capabilities listed in the QuickSpecs represent those capabilities available through Base Units or Build to Order configurations. The various product features and capabilities will vary in terms of configurable vs. aftermarket options (AMOs). There may be options and capabilities available through CTO that are not available as AMOs.

| Memory | HP 1 GB (DDR3 1333 MHz) SODIMM | AT911AA |
|---------------------|--|-----------------|
| | HP 2 GB (DDR3 1333 MHz) SODIMM | AT912A |
| | HP 4 GB (DDR3 1333 MHz) SODIMM | AT913A <i>A</i> |
| Storage | HP Upgrade Bay SATA DVD+/-RW SuperMulti DL LightScribe Drive | AK869AA |
| | HP 250 GB Pocket Media Drive | FE477AA |
| | HP External USB Drive CD/DVD R/RW | FS943AA |
| | HP Primary SATA 320 GB 7200 rpm Hard Drive | AS282AA |
| Expansion Solutions | HP 90W Docking Station | VB041AA |
| | HP 120W Advanced Docking Station | NZ222AA |
| | HP USB 2.0 Docking Station | FQ834AA |
| | HP Essential USB 2.0 Port Replicator | AQ731AA |
| | HP Dual Hinge Notebook Stand | AW661AA |
| | HP Display & Notebook Stand | AW662AA |
| | HP Adjustable Display Stand | AW663AA |
| | HP Adjustable Dual Display Stand | AW664AA |
| Power | HP Smart 65W Travel AC Adapter | AU155AA |
| | HP 90W Smart AC Adapter | ED495AA |
| | HP 90W Smart Combo Adapter | AJ652AA |
| | HP Long Life 3-Cell Battery | AU213AA |
| | HP 6-Cell Li-Ion Primary Battery | KU531AA |
| | HP 9-Cell Li-Ion Primary Battery | AT908AA |
| | HP Extended Life Battery | AJ359AA |
| | HP Ultra-Capacity Battery | AT486AA |



Options (availability may vary by country)

| Carrying Cases | HP Basic Carrying Case | AJ078AA |
|----------------------|--|---------|
| , , | HP Value Nylon Case | RR314AA |
| | HP Universal Nylon Case | RR315AA |
| | HP Professional Slim Top Load Case | AY530AA |
| | HP Executive Leather Case | RR316AA |
| | HP Deluxe Nylon Backpack | RR317AA |
| | HP Deluxe Roller Case | GD405AA |
| | HP Basic Backpack | AM863AA |
| | HP Merlot Slipcase | AU095AA |
| | HP Basic Messenger Carrying Case | AP355AA |
| | HP Professional Series Carrying Case | AT886AA |
| | HP Professional Series Backpack | AT887AA |
| | HP Professional Series Messenger | AT888AA |
| | HP Professional Series Designer Tote | AT889AA |
| | HP Professional Series Slip Case | AT890AA |
| | HP Elite Series Designer Tote | AT891AA |
| | HP Elite Series Quick Case | AT892AA |
| Security | HP Notebook Combination Lock | AY475AA |
| | HP Docking Station Cable Lock | AU656AA |
| | HP 14.0-inch Display Privacy Filter | AU100AA |
| | HP 15.6-inch Display Privacy Filter | AU103AA |
| | HP ExpressCard Smart Card Reader | AJ451AA |
| Input/Output Devices | HP PS/2 Keyboard & Mouse Bundle | RC464AA |
| • • • | HP USB Keyboard & Mouse Bundle | RC465AA |
| | HP USB Optical Travel Mouse | RH304AA |
| | HP USB/PS2 Optical 2-Button Scroll Mouse | DC369A |
| | HP Wireless Mouse | AR085AA |
| | HP BT Headset | AR084AA |
| | HP Mobile Audio Speakers | FS944AA |
| | HP Mobile Productivity Bundle | AQ792AA |
| | HP Bluetooth ExpressCard Mouse | GK872AA |
| | HP Migration Cable for Windows 7 | AY493AA |
| | HP Premium Autofocus Webcam | KQ245AA |
| | Premium Digital Headset | KJ270AA |



HP ProBook 6455b Notebook PC HP ProBook 6555b Notebook PC

QuickSpecs

Options (availability may vary by country)

| Miscellaneous | DisplayPort To DVI-D Adapter | FH973AA |
|---------------|-------------------------------------|---------|
| | Promo USB Graphics Adapter | NL571AT |
| | External USB Modem | GS023AA |
| | Belkin USB to Serial Adapter | EM449AA |
| | Notebook Multi-Purpose Cleaning Kit | BL528AA |



Memory

DDR3 PC3-10600 SDRAM (1333 MHz)*
Two SODIMM slots supporting dual-channel memory
SODIMM sizes supported: 1024 MB, 2048 MB and 4096 MB

Standard Memory

- 1024 MB (1024 MB x 1)
- 2048 MB (1024 MB x 2)
- 2048 MB (2048 MB x 1)
- 3072 MB (2048 MB + 1024 MB)
- 4096 MB (2048 MB x 2)
- 4096 MB (4096 MB x 1)

Optional Memory Upgrades

Support for up to 8192 MB of memory with the installation of optional DDR3 SDRAM memory kits. Both memory slots are user-accessible. Please refer to the Hardware and Software Guide for installation procedures. Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

| Up to | Slot 1 | Slot 2 |
|---------|---------|---------|
| 2048 MB | 1024 MB | 1024 MB |
| 3072 MB | 2048 MB | 1024 MB |
| 4096 MB | 2048 MB | 2048 MB |
| 4096 MB | 4096 MB | Empty |
| 8192 MB | 4096 MB | 4096 MB |

^{*} Memory speed is processor dependent.

NOTE: This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only HP- branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

Memory Upgrades

 HP 1 GB (DDR3 1333 MHz) SODIMM
 AT911AA

 HP 2 GB (DDR3 1333 MHz) SODIMM
 AT912AA

 HP 4 GB (DDR3 1333 MHz) SODIMM
 AT913AA



Storage

Upgrade Bay Drive Support

| Quantity Supported | Drive Bay |
|--------------------|-------------|
| One | Upgrade Bay |
| One | Upgrade Bay |
| One | Upgrade Bay |
| כ | ine ine |

Internal Storage Device

| | Quantity Supported | Drive Bay |
|---|--------------------|--------------------------|
| Hard Drives | | |
| 320 GB 7200 rpm SMART SATA II Hard Drive | One | Dedicated hard drive bay |
| 320 GB 7200 rpm SMART SATA II Self Encrypting Hard Drive | One | Dedicated hard drive bay |
| 250 GB 7200 rpm SMART SATA II Hard Drive | One | Dedicated hard drive bay |
| 160 GB 7200 rpm SMART SATA II Hard Drive | One | Dedicated hard drive bay |
| Solid State Drive | | |
| 128 GB Solid State Drive | One | Dedicated hard drive bay |



Technical Specifications

System Unit Dimensions (HxWxD) HP ProBook 6455b:

1.33 in (at front) x 13.35 in x 9.3 in 33.8 mm (at front) x 339 mm x 236.2 mm

HP ProBook 6555b:

1.37 in (at front) x 14.62 in x 9.76 in 34.8 mm (at front) x 371.4 mm x 248.0 mm

Weight HP ProBook 6455b:

Starting at 5.0 lb (2.26 kg) with weight saver (no optical drive)

Starting at 5.31 lb (2.39 kg) with DVD-ROM drive

HP ProBook 6555b:

Starting at 5.5 lb (2.51 kg) with weight saver (no optical drive)

Starting at 5.81 lb (2.64 kg) with DVD-ROM drive

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery and hard drive.

Stand-Alone Power Nominal Operating Voltage 18.5 V **Requirements** (AC Power) Average Operating Power 19.49 W

Max Operating Power < 90 W

Temperature Operating 32° to 95° F (0° to 35° C) (not writing optical)

41° to 95° F (5° to 35° C) (writing optical)

Non-operating -4° to 140° F (-20° to 60° C)

Relative Humidity Operating 10% to 90%, non-condensing

Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet bulb

temperature

Shock Operating 125 G, 2 ms, half-sine

Non-operating 200 G, 2 ms, half-sine

Random Vibration Operating 0.75 grms

Non-operating 1.50 grms

 Altitude
 Operating
 -50 to 10,000 ft (-15.24 to 3,048 m)

 (unpressurized)
 Non-operating
 -50 to 40,000 ft (-15.24 to 12,192 m)

Industry Standard Certifications UL Yes
CSA Yes
FCC Compliance Yes

ENERGY STAR® Select models*

EPEAT Registered Gold in United States**

ICES Yes
GS Yes
Australia / NZ A-Tick Yes

Compliance

CCC Yes
Japan VCCI Compliance Yes
KCC Yes



Technical Specifications

BSMI Yes
CE Marking Compliance Yes
BNCI or BELUS Yes
CIT Yes
GOST Yes
Saudi Arabian Compliance Yes

(ICCP)

SABS Yes UKRSERTCOMPUTER Yes

NOTE: For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

HP 90W Smart AC Adapter Dimensions 5.00 x 1.97 x 1.1 in (12.7 x 5.0 x 2.9 cm)

Certifications

 Weight
 0.82 lb (370 g)

 Input
 100 to 240 VAC

Input Efficiency 83% min at 115 VAC

Input frequency range 47 to 63 Hz

Input AC current 1.5 A at 90 VAC, 0.75 A at 180 VAC PFC Version

2.4 A at 90 VAC, 1.2 A at 180 VAC NON PFC Version

Output Output power 90W

DC output 19.0V

Hold-up time 5 msec at 115 VAC input

Output current limit <11A, Over voltage protection- 29V max

automatic shutdown

Connector3 pin/grounded, mates with interchangeable cordsEnvironmental DesignOperating temperature32° to 104° F (0° to 40° C)

Non-operating (storage) -4° to 149° F (-20° to 65° C)

temperature

Altitude 0 to 10,000 ft (0 to 3,048 m)

Humidity 20% to 80% Storage Humidity 10% to 90%

Storage Humidity 10% to 90%

EMI and Safety CE Mark – full compliance with LVD and EMC directives; Worldwide safety

standards – IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals – C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF— over 200,000 hours at 25°C ambient condition.



^{*} Configurations of the HP ProBook 6455b and HP ProBook 6555b that are ENERGY STAR qualified are identified as HP ProBook 6455b ENERGY STAR and HP ProBook 6555b ENERGY STAR on HP websites and on www.energystar.gov.

^{**} EPEAT Registered Gold in U.S. EPEAT registration varies by country. See www.epeat.net for registration status by country.

Technical Specifications

NOTE: Unless otherwise noted, temperature limits listed in the following component specifications relate to the internal temperatures of these components and not to the environment in which the PC is operating.

Optional HP Ultra-Capacity Battery **Dimensions** $(H \times W \times L)$ 1

1.3 x 6.0 x 10.6 in (3.33 x 15.25 x 26.88 cm)

Weight 1.77 lb (0.803 kg)
Cells/Type 12-cell Lithium-Ion

Energy Watt-hour Capacity 95 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C) Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time Smart Adapter 3 to 4 hours

System ON 4 to 5 hours (depending on system power

consumption)

Fuel Gauge When pressed, LEDs light indicating level of charge remaining on battery

Optional HP Extended Life $\,$ Dimensions (H \times W \times L)

Battery

\(\mathbf{W} \times \mathbf{L} \)
 \(1.0 \times 3.9 \times 8.7 \) in (2.5 \times 10.0 \times 22.0 cm)

Weight 1.00 lb (0.455 kg)
Cells/Type 8-cell Lithium-Ion

Energy Watt-hour Capacity 52 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (–10° to 60° C)

Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time System in OFF mode or

Standby

System ON 3 to 5 hours (depending on system power

3 hours

consumption)

HP Fast Charge Technology Charges the battery up to 90% within 90 minutes

when system is OFF

Fuel Gauge When pressed, LEDs light indicating level of charge remaining on battery



Technical Specifications

Optional HP Long Life 3cell 47 WHr Lithium-Ion Battery **Dimensions** (H x W x L) 0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.4 cm)

Weight 0.71 lb (0.32 kg)
Cells/Type 3-cell Lithium-Ion

Energy Watt-hour Capacity 47 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C) Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time System in OFF mode or 2.5 hours

Standby

System ON 3 to 5 hours (depending on system power

consumption)

HP Fast Charge Technology Charges the battery up to 90% within 90 minutes

when system is OFF

9-Cell (93 WHr) Lithium-Ion battery **Dimensions** (H x W x L) 0.8 x 2.9 x 8.3 in (2.0 x 7.3 x 21.0 cm)

Weight 1.07 lb (0.488 kg)
Cells/Type 9-cell Lithium-Ion

Energy Watt-hour Capacity 93 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (–10° to 60° C)

Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time System in OFF mode or 3 to 4 hours

Standby

System ON 4 to 6 hours (depending on system power

consumption)

6-Cell (55 WHr) Lithiumon battery **Dimensions** (H x W x L) 0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.4 cm)

Weight 0.71 lb (0.32 kg)
Cells/Type 6-cell Lithium-Ion

Energy Watt-hour Capacity 55 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C) Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time System in OFF mode or 2.5 hours

Standby

System ON 3 to 5 hours (depending on system power

consumption)

HP Fast Charge Technology Charges the battery up to 90% within 90 minutes

when system is OFF

Technical Specifications

HP Long Life 6-cell 51 WHr Dimensions $(H \times W \times L)$

Lithium-Ion Primary

battery

0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.3 cm)

Weight 0.73 lb (0.331 kg) Cells/Type 6-cell Lithium-Ion

Energy Watt-hour Capacity 51 WHr

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

> 14° to 140° F (-10° to 60° C) Operating (Discharging)

> -4° to 140° F (-20° to 60° C) Non-operating

System in OFF mode or **Battery Re-Charge Time**

Standby

System ON 3 to 5 hours (depending on system power

2.5 hours

consumption)

Displays

14.0-inch LED HD (1366 x Active Area (W x H)

768) anti-glare

12.74 x 7.56 in (32.4 x 19.2 cm)

Diagonal Size 14.0 in (35.6cm) **Surface Treatment** Anti-glare **Contrast Ratio** 300:1 (typical)

Refresh Rate 60 Hz

Brightness 200 nit (typical)

Pixel Resolution Pitch 0.227 mm **Format** 1366 x 768

Configuration **RGB Stripe**

Backlight LED PPI 112 ppi

Viewing Angle ±30° Horizontal, ±10° Vertical (minimum)

30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)



Technical Specifications

768)

anti-glare

15.6-inch LED HD (1366 x Active Area (W x H) 13.54 x 7.59 in (34.4 x 19.4 cm)

> **Diagonal Size** 15.6 in (39.6cm) **Surface Treatment** Anti-glare **Contrast Ratio** 300:1 (typical)

Refresh Rate 60 Hz

Brightness 200 nit (typical)

Pixel Resolution Pitch 0.252 mm **Format** 1366 x 768

> Configuration **RGB Stripe**

LED Backlight PPI 100 ppi

Viewing Angle ±30° Horizontal, ±10° Vertical (minimum)

> 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)

15.6-inch LED HD+ WVA (1600 x 900) anti-glare

Active Area (W x H) 13.54 x 7.59 in (34.4 x 19.4 cm)

Diagonal Size 15.6 in (39.6 cm) **Surface Treatment** Anti-glare **Contrast Ratio** 300:1 (typical)

Refresh Rate 60 Hz

Brightness 200 nit (typical)

Pixel Resolution Pitch 0.215 mm

> **Format** 1600 x 900 Configuration **RGB Stripe**

LED Backlight PPI 118 ppi

±60° Horizontal, ± 50° Vertical (minimum) or **Viewing Angle**

±70° Horizontal, ±60° Vertical (typical)

Internal Storage



Technical Specifications

320 GB 7200 rpm SATA Hard Drive **Drive Weight** 0.25 lbs (115 g)

Capacity 320 GB

Height 0.37 in (9.5 mm) or on some models 0.28 in (7 mm)

Width 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Seek TimeSingle Track1.5 ms(typical reads, including settling)Average11 msMaximum22 ms

Rotational Speed 7200 rpm Logical Blocks 625,142,448

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

250 GB 7200 rpm SATA Hard Drive
 Drive Weight
 0.25 lbs (115g)

 Capacity
 250 GB

Height 0.37 in (9.5 mm) or on some models 0.28 in (7 mm)

Width 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Seek TimeSingle Track1.5 ms(typical reads, including settling)Average11 msMaximum22 ms

Rotational Speed 7200 rpm Logical Blocks 488,397,168

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

Technical Specifications

160 GB 7200 rpm SATA Hard Drive **Drive Weight** 0.25 lb (115 g)

Capacity 160 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Seek TimeSingle Track1.5 ms(typical reads, including
settling)Average11 msMaximum22 ms

Rotational Speed 7200 rpm Logical Blocks 312,581,808

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

128 GB

2.5-inch SATA Solid State Capacity
Drive

Weight 80.1 Grams
Capacity 128 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface SATA

Performance Maximum Sequential Maximum Sequential Write

Read

220 MB/s 200 MB/s

Logical Blocks 250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [case temp] **Features** ATA Security; ATA-7 ;SATA 2.6; DIPM



Technical Specifications

| DVD-ROM Drive | Access Times | Random | < 110 ms CD (typical) |
|---------------|--------------|--------|-----------------------|
|---------------|--------------|--------|-----------------------|

< 110 ms DVD (typical)

Max Data Transfer Rate 24X CD-ROM Up to 3,600 KB/s

> 8X-DVD Up to 10,800 KB/s

Transfer Mode UDMA Mode 5 Interface Gen 1 SATA

Supported Media (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, DVD-RAM

Supported Media (write) None Max Media Capacity (read) 8.5 GB

Transport Tray Loading

DVD+/-RW SuperMulti DL Access Times **LightScribe Drive**

Random < 150ms CD (typical)

< 160 ms DVD (typical)

Max Data Transfer Rate 24X CD-ROM Up to 3,600 KB/s

> 8X DVD Up to 10,800 KB/s 24X CD-R Up to 3,600 KB/s 16X CD-RW Up to 2,400 KB/s 8X DVD+R Up to 10,800 KB/s 8X DVD+RW Up to 10,800 KB/s 8X DVD-R Up to 10,800 KB/s **6X DVD-RW** Up to 8100KB/s 4X - DVD+R Dual Layer Up to 5,400 KB/s 4X - DVD-R Dual Layer Up to 5,400 KB/s **5X DVD-RAM**

Transfer Mode UDMA Mode 5 Interface Gen 1 SATA

Supported Media (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,

Up to 6,750 KB/s

DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM, LightScribe

Max Media Capacity (read) 8.5 GB **Max Media Capacity** 8.5 GB

(write)

Transport Tray Loading



Technical Specifications

Audio

Hardware Implementation IDT 92HD75B High Definition CODEC

Touch-Sensitive Volume

Controls

Volume up, volume down, and mute

Full DuplexYesMicrophone InStereoHeadphone/Line OutStereo

Integrated Microphone Yes, one microphone on configurations without optional webcam; dual-

microphone array when equipped with optional webcam

Audio Output Quality Frequency Response 20 Hz – 20 kHz

Signal to Noise Ratio >85 dB

Total Harmonic Distortion 0.01%

Noise Floor -110 dB

Play/Record Sampling 8 kHz - 48kHz

Rate(s)

DAC 16, 20 or 24-bit **ADC** 16 or 20-bit

Integrated Stereo

Speakers

Power Rating 2 Watts Impedance 4 Ohms

Security

HP Fingerprint Sensor

(optional)

Mobile Voltage Operation 3.0V-3.6V Single Supply **Operating Temperature** 32° - 158°F (0° - 70°C)

Current Consumption @ Less than 70 mA peak imaging and scrolling

3.3V Less than 25 mA hardware finger detection

Advanced Power Management

High-Rate Image Capture Up to 240 image frames /sec **ESD Resistance** IEC 61000-4-2 Level 4 (±15KV)

Detection Matrix 192 x 16 Pixels

9.7 mm x 0.81 mm

500 ppi High-Resolution Images

Communications



Technical Specifications

| Integrated Marvell |
|---------------------------|
| 10/100/1000 NIC |

Ethernet Features

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE 802.3

clauses 34-42)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100

Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

Power Management

ACPI compliant – multiple power modes

Situation-sensitive features reduce power consumption

Performance Features

TCP/IP/UDP Checksum Offload (configurable)

Manageability

Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft

Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x,

clause 30))

Comprehensive diagnostic and configuration software suite

Interface

PCI Express x1

NIC Device Driver Name

Marvell Yukon 88E8072 PCI-E Gigabit Ethernet Controller

V.92 56K Data/Fax Modem Form Factor

Power Management

Support

APM Revision 1.2, ACPI

MDC 1.5 Daughtercard

Approvals/ Certifications 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

Data Mode Capabilities

V.92 data

V.8bis

V.80

V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction)

Optional symbol rates:

2800, 3429

Asymmetric Symbol rates

Synchronous primary channel data signaling rates:

3600, 31200

Automatic rate re-negotiation

V.34 V.32bis V.32 V.23 V.22bis **V.22** V.21

Bell 212A



Technical Specifications

Bell 103J

Fax Mode Capabilities TIA/EIA-578-B (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

V.251

HP un2420 EV-DO/HSPA Mobile Broadband Module

O Technology/Operating SPA Mobile Bands GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS), 1900MHz

(PCS)

UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), 900MHz (UTRA FDD Band VIII), 850MHz (UTRA FDD Band V) 1xEVDO/1xRTT with receive diversity: 850MHz (Band Class0-Cell), 1900MHz

(Band Class 1-PCS)

Wireless Protocol Standards GSM/GPRS/EDGE: Class B, Multi-slot operation, coding schemes CS1 – CS4 and

MSC1 - MSC9.

UMTS/WCDMA: Release 99 and Release 6

CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-2000

Wireless Parametric

Standards

Meets or exceeds TIA/EIA IS-98-D

Maximum Data Rates

UMTS (HSPA) - 7.2 Mbps (Download), 2.0 Mbps (Upload)

CDMA (EVDO Release A) – 3.1 Mbps (Download), 1.8 Mbps (Upload)

GPS Standalone GPS enabled

GPS Bands L1 – 1575.42 MHz

Maximum Output Power GSM/GPRS/EDGE: 32dBm (+/-1)

WCDMA: 24dBm (+/-1) CDMA: 24dBm (+/-1)

Maximum Power Consumption

2500mA (peak); 1000mA (average)

Power Consumption,

Sleep Mode

5 mA

Power Management USB selective suspend

Integrated notebook wireless button

Antenna Type Dual high efficiency 5 band antennae with spatial diversity, mounted in the

display enclosure

Form Factor PCI-Express MiniCard, USB 2.0 interface

Weight 11.5 g



Technical Specifications

Dimensions (Length x

2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)

Width x Thickness)

Voltage, Operating 3.3v +/- 10%

Temperature, Operating -22° to 140° F (-30° to 60° C) (full RF performance) (from TIA/EIA/IS-98-D) -22° to 167° F (-30° to 75° C) (reduced RF performance)

Temperature, Non- -40° to 185° F (-40° to 85° C)

operating, 96 hours (from MIL-STD 202 Method 108)

Humidity, Non-operating 85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)

Configuration Utilities HP Connection Manager **LED Activity** LED Off – Radio Off;
Solid LED On – Radio On

Broadcom 4322AGN Wirele

802.11a/b/q/n

WiFi Adapter

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b IEEE 802.11g IEEE 802.11n

Interoperability Wi-Fi certified (802.11abg only)

Cisco Compatible Extensions Program compliant (802.11abg only) with

Microsoft Windows Vista and XP

Frequency Band 2.4 GHz and 5 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: 6, 6.5, 9, 12, 13, 13.5, 18, 19.5, 24, 26, 27, 36, 39, 40.5, 48, 52, 54, 58.5, 65, 78, 81, 104, 108, 117, 121.5, 130, 135, 162, 216, 243, 270, 300 Mbps

Frequency Support 20 MHz: 2.4 GHz and 5 GHz bands

40 MHz: 2.4 GHz and 5 GHz bands

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES,

802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2,

LEAP, EAP-FAST.

Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program

Version 4) with Microsoft Windows Vista and XP only.

Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Network Architecture Ad-ho

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power (for CCK)² 17 dBm



Technical Specifications

Output Power (for OFDM; 15 dBm

power varies by data rate)2

Power Consumption Idle associated: 250 mW

Idle unassociated: 150 mW

Transmit/Receive 20 MHz channel: 2.0 W (max) Transmit/Receive 40 MHz channel: 2.0 W (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³

270 Mbps: -61dBm, , 54 Mbps: -72 dBm, 11 Mbps: -85 dBm , 1 Mbps: -92 dBm

Antenna type High efficiency dual band antenna with spatial diversity, mounted in the

display enclosure

Form Factor PCI-Express Half-MiniCard

Weight 0.013 lb (6 g)

Dimensions 0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)

Operating Voltage 3.3v +/- 10%

Temperature Operating 14° to 149° F (–10° to 65° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

Configuration Utility⁴ Microsoft Windows XP

Choice of Configuration Utility:

Microsoft Windows XP Wireless Network Connection Manager

• Broadcom Wireless Configuration Utility (required for Cisco Compatible

Extensions support)

Microsoft Windows Vista

Microsoft Windows Vista Wireless Network Connection Manager

Broadcom IHV extensions for Windows Vista available to support Cisco

Compatible Extensions.

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

1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a

packet error rate of 10% for 802.11a/g (OFDM modulation).

4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows

Vista.

Broadcom 4313GN 802.11b/g/n WiFi Adapter

Wireless LAN Standards IEEE 802.11b

IEEE 802.11g IEEE 802.11n



Technical Specifications

Interoperability Wi-Fi certified

Cisco Compatible Extensions Program compliant with Microsoft Win7, Vista

and XP (details at: http://www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: 6.5, 7.2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8, 58.5, 65,

72.2Mbps

Frequency Support 20 MHz: 2.4 GHz bands

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES,

802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2,

LEAP, EAP-FAST.

Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program

Version 4) with Microsoft Windows Vista and XP only.

Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power (for CCK)² 17 dBm, nominal Output Power (for OFDM; 15 dBm, nominal

power varies by data rate)2

Power Consumption Idle associated: 250 mW avg (CLKREQ enabled)

Idle unassociated: 425 mW avg

Transmit/Receive 20 MHz channel: 5.5 W (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 72.2 Mbps: -71dBm

Antenna type High efficiency dual band antenna with spatial diversity, usually mounted in

the display enclosure

Form Factor PCI-Express Half-MiniCard

Weight 0.013 lb (6 q)

Dimensions 0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)

Operating Voltage 3.3v +/- 10%

Temperature Operating 14° to 149° F (-10° to 65° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)



Technical Specifications

LED Activity LED Off - Radio OFF; Solid LED On - Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/q (OFDM modulation).
- 4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista and Win7.

HP Integrated Module with Bluetooth 2.1+EDR Wireless Technology **Bluetooth Specification** 2.1+EDR Compliant

Dimensions 1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)

Frequency Band 2402 to 2480 MHz

Number of Available

Channels

79 (1 MHz) available channels

Cilainicts

Data Rates and

3 Mbps data rate; throughput up to 2.17 Mbps

Throughput Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or

1306.9 kbps symmetric

Transmit Power -6 dBm to 4 dBm (Bluetooth Class II)

Receiver Sensitivity Better than -80 dBM at 0.1 % raw bit error rate

Power Consumption Peak (Tx) 264 mW

Peak (Rx) 231 mW

Sleep < 1 mW

Antenna Internally integrated within module

Range Up 33 ft (10 m)

Electrical Interface USB 2.0 compliant

Microsoft Windows Plug and Play compliant

Bluetooth Software

Supported

Broadcom Bluetooth for Windows

Microsoft Windows Bluetooth Software

Link TopologyPoint to Point, Multipoint Pico Nets up to 7 slaves **Security**Full support of Bluetooth Security Provisions

Power Management Microsoft Windows ACPI, and USB Bus Support

Self configurable to optimize power conservation in all operating modes,

including Standby, Hold, Park, and Sniff

Certifications All necessary regulatory approvals for supported countries, including:

FCC (47 CFR) Part 15C, Section 15.247 & 15.249

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Temperature Operating -4° to 158° F (-20° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

Technical Specifications

| Humidity | Operating | 10% to 90% |
|----------|---------------|------------|
| | Non-operating | 5% to 95% |

Altitude Operating 15,000 ft (4,572 m)

Non-operating 40,000 ft (12,192 m)

Bluetooth Profiles
Supported

Serial Port Profile (SPP)¹

Service Discovery Applicaton Profile (SDAP)

Dial-Up Networking (DUN)^{1,2}

Generic Object Exchange Profile (GOEP)^{1,2}

Object Push Profile (OPP)^{1,2} File Transfer Profile (FTP) Synchronization Profile (SYNC)

Hard Copy Cable Replacement (HCRP)^{1,2} Personal Area Networking Profile (PAN)^{1,2} Human Interface Device Profile (HID)^{1,2,3}

FAX Profile (FAX)

Basic Imaging Profile (BIP)² Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

Environmental Data

Eco-Label Certifications

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US Energy Star
- IT ECO declaration
- EPEAT Gold where HP registers commercial notebook products. See http://www.epeat.net for registration status in your country.

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Convertible Mini tower Desktop model is based on a "Typically Configured Notebook"

HP ProBook 6455b Notebook PC

| Energy Consumption | 115 VAC | 230 VAC | 100 VAC |
|------------------------------------|-----------|-----------|-----------|
| Normal Operation | 10.93W | 11.11W | 10.68W |
| Sleep (Energy Star low power mode) | 0.71W | 0.77W | 0.68W |
| Off | 0.57W | 0.63W | 0.56W |
| Heat Dissipation* | 115 VAC | 230 VAC | 100 VAC |
| Normal Operation | 37 BTU/hr | 38 BTU/hr | 37 BTU/hr |
| Sleep | 2 BTU/hr | 3 BTU/hr | 2 BTU/hr |



¹ indicates the profile is supported by Microsoft Windows XP SP2

² indicates the profile is part of Windows Vista

Technical Specifications

Off 1 BTU/hr 2 BTU/hr 1 BTU/hr

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

| System Fan Off | Sound Power (LWAd, bels) | Sound Pressure (LpAm, decibels) |
|-------------------------------|-----------------------------|------------------------------------|
| Idle | 2.6 | 17.3 |
| Fixed Disk (random writes) | 2.7 | 17.6 |

System fan is usually off except when charging the battery

HP ProBook 6555b Notebook PC

| Energy Consumption | 115 VAC | 230 VAC | 100 VAC |
|------------------------------------|-----------|-----------|-----------|
| Normal Operation | 10.93W | 11.11W | 10.68W |
| Sleep (Energy Star low power mode) | 0.71W | 0.77W | 0.68W |
| Off | 0.57W | 0.63W | 0.56W |
| Heat Dissipation* | 115 VAC | 230 VAC | 100 VAC |
| Normal Operation | 37 BTU/hr | 38 BTU/hr | 37 BTU/hr |
| Sleep | 2 BTU/hr | 3 BTU/hr | 2 BTU/hr |
| Off | 2 BTU/hr | 2 BTU/hr | 2 BTU/hr |

^{*} Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

| System Fan Off | Sound Power (LWAd, bels) | Sound Pressure (LpAm, decibels) |
|-------------------------------|-----------------------------|------------------------------------|
| Idle | 3.0 | 22.5 |
| Fixed Disk (random writes) | 3.0 | 22.6 |

System fan is usually off except when charging the battery

HP ProBook 6455b Notebook PC and HP 6555b Notebook PC

Batteries This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight



Technical Specifications

Additional

information

The battery type and chemistry used in the product is:

Li-ion

High capacity Lithium-Ion battery

This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive – 2002/95/EC.

This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.

This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).

This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 95.1% recycle-able when properly disposed of at end of life.

Packaging Materials

- External:
 - Corrugated carton 360 g
 - O Cardboard & misc. 365 g
- Internal:
 - Polyethylene low density 15 g
 - O EPE Expanded Polyethylene 90 g
- The Corrugated carton packaging material is made from 70% 80% recycled content.
- The Cardboard & misc. packaging material is made from 70% 80% recycled content.
- The Polyethylene low density packaging material is made from 0% recycled content.
- The EPE –Expanded Polyethylene packaging material is made from 70%
 80% recycled content.

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and



Technical Specifications

- corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment

(http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
- Nickel finishes that release greater than 0.5 µgrams/cm²/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard For more information about **Corporate Environmental** Global Citizenship Report

For more information about HP's commitment to the environment: Global Citizenship Report



Technical Specifications

Information

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Environment website

http://www.hp.com/environment

Eco-label certifications

http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/

ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/operations/

envmanagement.html

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