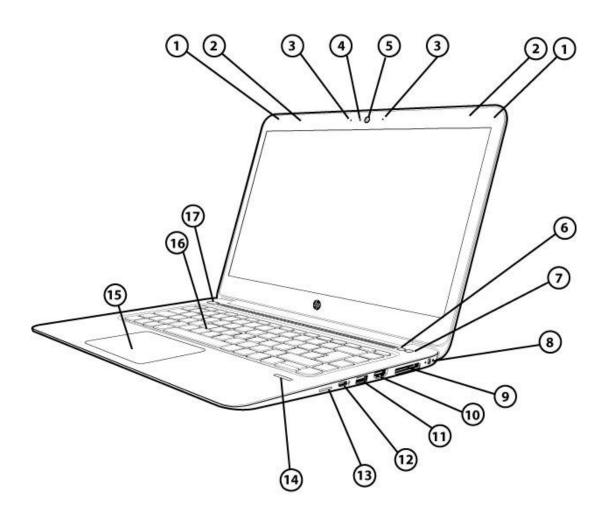
Overview

HP EliteBook 1040 G3 Notebook PC



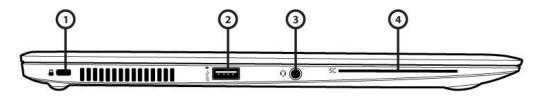
Front Side View

- 1. WLAN antennas (2)
- 2. WWAN antennas (2) (select models)
- 3. Internal microphones (2)
- 4. Webcam LED (select models)
- 5. Optional 720p HD webcam
- 6. Wireless on/off button with LED indicator
- 7. Speaker mute button with LED indicator
- 8. Power connector
- 9. Docking connector

- 10. HDMI 1.4 port
- 11. USB charging port
- 12. USB-Type C[™] charging port
 - www. SIM with plug (Plug is removable only for units with
- 13. optional WWAN
- 14. Fingerprint reader
- 15 ClickPad™
- 16. Backlit keys
- 17. Power button



Overview



Side View

- 1. Security lock slot
- 2. USB 3.1 Gen 1 charging port

- 3. Headphone/microphone combo
- 4. Smart card reader

At A Glance

- Weight starting at 3.15 lbs (1.43 kg) for Non-Touch or 3.40 lbs (1.54 kg) for Touch
- Height starting at of 15.8 mm (16.5 mm with Touchscreen)
- CNC Aluminum chassis with diamond cut design, wear-resistant "meteorite" HP DuraFinish, HP DisplaySafe frame, HP DuraKeys high durability keyboard finish, aluminum alloy keyboard deck, precision aluminum drop hinge
- Choice of 6th Generation Intel® Core™ i5, i7 Processors with integrated Intel® HD Graphics
- Supports wireless LAN and wireless WAN options for connectivity on the go
- Integrated docking connector and optional HP Ultraslim Docking Station provide quick transition to a desktop setting
- Enhanced security features including HP Sure Start self-healing BIOS, HP Client Security, HP BIOSphere, and hardware security options like an HP Fingerprint Reader, optional VPro and integrated smart card reader
- Full-sized spill-resistant backlit keyboard with drain keeps you productive in low-light settings
- New Clickpad for both basic and advanced touch gestures
- 14.0" diagonal QHD (2560 x 1440) Touch, QHD (2560 x 1440) or FHD (1920 x1080) Non-Touch Displays
- HP 6-cell (45.6 WHr) Long Life battery for battery life up to 11 hours and 30 minutes
- Up to 512 GB Solid State Drives
- Up to 16 GB total system memory
- 720p HD webcam with dual-microphone array for video conferencing
- Audio by Bang & Olufsen for precise sound
- Windows 10, Windows 7 Professional 64, FreeDOS 2.0
- Pass 12 MIL STD tests¹

1. Testing was not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

NOTE: See important legal disclosures for all listed specs in their respective features sections.



HP EliteBook 1040 G3 Notebook PC

QuickSpecs

Overview



Technical Specifications

PRODUCT NAME

HP EliteBook 1040 G3 Notebook PC

OPERATING SYSTEM

Preinstalled Windows 10 Pro 64¹

Windows 10 Home 641

Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64)2

Windows 7 Professional 643

FreeDOS 2.0

Web-only Support Widows 10 Enterprise¹

Windows 8.1 Enterprise 64³ Windows 7 Professional 32³ Windows 7 Enterprise 32³ Windows 7 Enterprise 64³

- 1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.
- 2. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data
- Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately
 purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. See
 http://www.microsoft.com.

PROCESSOR

Intel® Core™ i7-6600U with Intel HD Graphics 520 (2.6 GHz, up to 3.4 GHz with Intel Turbo Boost Technology, 4 MB cache. 2 cores) ¹

Intel® Core[™] i7-6500U with Intel HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores) ¹

Intel® Core™ i5-6300U with Intel HD Graphics 520 (2.4 GHz, up to 3 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores) ¹

Intel® Core™ i5-6200U with Intel HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores) ¹

1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

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

CHIPSET

Integrated with processor



Technical Specifications

GRAPHICS

Integrated:

Intel® HD Graphics 520

DISPLAY

Non-Touch

14.0" diagonal LED-backlit FHD1 Anti-glare SVA (1920 x 1080), 300 nits

14.0" diagonal LED-backlit FHD1 Anti-glare SVA (1920 x 1080), 300 nits with WWAN

14.0" diagonal LED-backlit FHD1 Anti-glare SVA (1920 x 1080), 300 nits with camera

14.0" diagonal LED-backlit FHD1 Anti-glare SVA (1920 x 1080), 300 nits with camera and WWAN

14.0" diagonal LED-backlit QHD1 UWVA (2560 x 1440), 340 nits

14.0" diagonal LED-backlit QHD1 UWVA (2560 x 1440), 340 nits with WWAN

14.0" diagonal LED-backlit QHD1 UWVA (2560 x 1440), 340 nits with camera

14.0" diagonal LED-backlit QHD1 UWVA (2560 x 1440), 340 nits with camera and WWAN

HP Sure View

Integrated Privacy Screen

14.0" diagonal LED backlight FHD Slim eDP SVA Anti-glare (1920 x 1080)

Touch²

14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera 14.0" diagonal LED-backlit QHD¹ UWVA (2560 x 1440), 340 nits with camera and WWAN

HP Sure View

Integrated Privacy Screen

14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch 14.0" diagonal LED backlight FHD Slim eDP SVA (1920 x 1080) Touch with camera

Note: Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover

1. HD content required to view HD images.

External

Up to 32-bit per pixel color depth

HDMI

HDMI 1.4 (Cable not included)

Docking Station	Number of Displays supported	
Optional UltraSlim Docking Station ¹	3	

1. Sold separately or as an optional feature.

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage



Technical Specifications

Solid State Drives

Supports M.2 (NGFF) 2280 Solid State Drive
128 GB SATA-3 TLC SSD
180 GB SATA-3 MLC SSD
180 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
240 GB SATA-3 MLC SSD
256 GB PCIe-3x4 NVMe SSD
256 GB SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
256 GB SATA-3 TLC SSD
512 GB SATA-3 TLC SSD

1. For solid state drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) of system disk is reserved for the system recovery software.

NOTE: Internal component upgrades such as storage are not available after factory configuration.

MEMORY

Standard

DDR4 PC4 – 2133 (Transfer rates up to 2133 MT/s) Memory soldered down (No sockets) Supports Dual Channel Memory

Standard memory

8192 MB Total System Memory (512 MB x 16 MB) 16384 MB Total System Memory (512 MB x 16 MB x 2)

Maximum

16 GB Total System¹

NOTE: Internal component upgrades to memory are not available after factory configuration.

1. Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)

HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module^{1,2} HP 3110 HSPA+ Mobile Broadband Module^{1,2}

NOTE: WWAN modules are only available if preconfigured. WWAN connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. Not available with Ubuntu.

Wireless LAN (WLAN)

Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo^{1,2}

- 1. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.
- 2. Sold separately or as an optional feature.

Communications



Technical Specifications

Intel® Ethernet Connection I218LM 10/100/1000 Ethernet, with iAMT Optional Near Field Communication (NFC) with Secure Element ^{2,3}

- The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility 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.
- 2. NFC ships enabled by default on Windows 8.1 and is disabled by default on Windows 7.
- 3. Sold separately or as an option.

AUDIO/WEBCAM

Audio

Audio by Bang & Olufsen Two integrated stereo speakers Integrated dual-array microphone Button for speaker mute; function keys for volume up and down Headphone/Microphone combo port Intel® Smart Sound Technology (Windows 8.1 and Windows 10)

1. Works only with Windows.

Webcam

720p HD² webcam

- 1. HD format (widescreen)
- 2. Supports videoconferencing and still image capture
- 3. High quality fixed focus lens
- 4. Video capture at various resolutions up to 1280 x 720 resolution (720p) and up to 30fps
- 5. M-JPEG compression supports higher frame rates for video capture and videoconferencing
- 6. Improved low light sensitivity
- 7. Improved dynamic range
- 1. Sold separately as an optional feature.
- 2. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Spill-resistant with drain Backlit HP Dura Keys

Buttons and Function Keys

Discrete buttons provide easy access to the following features:

- F1 Sleep
- F2 Blank
- F3 -Backlit Keyboard
- F4 Display Switching
- F5 Brightness Down
- F6 Brightness Up
- F7 Blank
- F8 Volume Down
- F9 Volume Up



Technical Specifications

F10 - Mic Mute

F11 - Blank

F12 - Num Lock

TouchPad

ClickPad™ Glass with chemical etched surface Taps enabled as default

Gestures enabled by default

2 Finger Scrolling 2 Finger Zoom (Pinch)

SOFTWARE AND SECURITY

Preinstalled with Windows Operating System

BIOS

HP BIOSphere¹

HP Sure Start with Dynamic Protection

HP DriveLock | HP Automatic DriveLock

HP BIOS Protection²

BIOS Update via Network

HP Sparekey¹⁵

Master Boot Record Security

Power On Authentication

Pre-Boot Security

Secure Erase³

Hybrid Boot

Measure Boot

Secure Boot

Pre-boot Authentication

Multi Media

Cyberlink Power DVD, BD

Cyberlink YouCam BE (Windows 7 only)

Communication

HP GPS and Location (Windows 7 only)⁵

HP Connection Manager with support for HP Mobile Connect Pro (Windows 7 only)⁶

HP Mobile Connect Pro (Windows 8.1 and Windows 10 only)6

Intel® Wireless Display (WiDi) Software for Windows7

Native Miracast Support8

HP Value Add Software

HP ePrint Driver9

HP Hotkey Support

HP Recovery Manager



Technical Specifications

HP Recovery Disc Creator

HP Registration App (Windows 8.1 only)

HP Support Assistant

HP Noise Reduction Software

3rd Party

Foxit PhantomPDF Express for HP

Microsoft Products

Buy Office

Bing Search

Skype for business certified 10

Manageability

HP Driver Packs¹¹

HP SoftPag Download Manager (SDM)

HP System Software Manager (SSM)11

HP BIOS Config Utility (BCU)11

HP Client Catalog¹¹

HP CIK for Microsoft SCCM¹¹

LANDESK Management¹²

HP Image Assistant¹¹

For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement.

Client Security Software

HP Client Security

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Fingerprint Sensor
- HP Password Manager
- Absolute Persistence Module⁴
- Power On Authentication

Microsoft Security Essentials13

Microsoft Defender¹³

Security

Trusted Platform Module (TPM) 1.2 Embedded Security Chip (Common Criteria EAL4+ Certified or FIPS 140-2). Field upgradeable to TPM 2.0¹⁴

Security lock slot (Cable not included)

Fingerprint Reader

Integrated Smart Card Reader

For more information on HP Client Security Software Suite, refer to http://www.hp.com/go/clientsecurity.

- 1. Available only on business PCs with HP BIOS.
- 2. May require a manual recovery step if all copies of BIOS are compromised or deleted
- 3. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.



Technical Specifications

- 4. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 5. GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications.
- 6. HP Mobile Connect Pro is only available on preconfigured devices with WWAN. For geographic availability refer to www.hp.com/go/mobileconnect
- 7. Integrated Intel Wi-Di feature is available on select configurations only and requires separately purchased projector, TV or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, TV or computer monitor via a standard HDMI cable, also sold separately.
- 8. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast
- 9. Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- 10. Skype is not offered in China.
- 11. Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement
- 12. Subscription required.
- 13. Opt in and internet connection required for updates.
- 14. This product ships with TPM 1.2 with option to upgrade to TPM 2.0. Upgrade utility is expected to be available by the end of 2015 via HP Customer Support
- 15. Requires initial user set up.

POWER

Power Supply/AC Adapters

45W 2-prong AC Adapter 45W Smart AC Adapter 65W Smart EM AC Adapter 65W Slim Travel AC Adapter

Power cord included is 3.2 ft /1 m long. Optional: 1.8 m long power cord (5.9 ft)

Primary Battery

HP 6-Cell (45.6 Whr) polymer long life battery

Battery Life

Up to 11 hours and 30 minutes (With FHD display)¹
Up to 10 hours (With QHD display)¹

System Standby Time

Up to TBD

1. Windows 10/MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.



Technical Specifications

WEIGHTS & DIMENSIONS

Weight

Starting at 3.15 lbs (1.43 kg) for Non-Touch¹ Starting at 3.40 lbs (1.54 kg) for Touch¹

1. Weight varies by configuration and components.

Dimensions (w x d x h) **Non-Touch** 13.27 x 9.23 x 0.62 in (Front) 33.7 x 23.45 x 1.58 cm (Front)

Touch

13.27 x 9.23 x 0.65 in (Front) 33.7 x 23.45 x 1.65 cm (Front)

PORTS/CONNECTORS

Ports

Input / Output

- (2) USB 3.1 Gen 1 charging port
- (1) USB-Type C[™] charging port (15W)
- (1) Docking connector
- (1) HDMI 1.4
- (1) Headphone/microphone combo
- (1) Multi-Pin AC port (4.5mm)

Note: Cables not included.

SERVICE AND SUPPORT

HP Services offers a 1-year limited warranty. . Batteries have a default one year limited warranty same as the platform. Onsite service and extended coverage is also available. HP Care Pack Services^{1,2} are optional extended service contracts that go beyond the standard limited 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/qo/cpc.

- 1. Sold separately or as an optional feature.
- 2. Service levels and response times for HP Care Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc



Technical Specifications

System Unit

Displays

14.0" diagonal LEDbacklit FHD Anti-glare SVA (1920 x 1080) **Active Area** (W x H) 308.851 (H) x 173.729 (V) mm

Diagonal Size 14.0"
Surface Treatment Anti-Glare
Contrast Ratio 500:1 (typical)

Refresh Rate 60Hz

Brightness 300nit (typical, @5point)

Pixel Resolution 1920 x 1080
Backlight WLED
PPI 157

Viewing Angle SVA 45/45/20/45

14.0" diagonal LEDbacklit QHD UWVA (2560 x 1440) **Active Area** (W x H) 309.504 (H) x 174.096 (V) mm

Diagonal Size14.0"Surface TreatmentAnti-GlareContrast Ratio600:1 (typical)

Refresh Rate 60Hz

Brightness 340nit (typical, @5point)

Pixel Resolution 2560 x 1440
Backlight WLED
PPI 210

Viewing Angle UWVA 85/85/85

14.0" diagonal LEDbacklit QHD UWVA (2560 (W×H×D) x 1440), 340 nits with camera- Touch

Outline Dimensions 331.35 x 217.53 x 3.8 mm max. (w/LCD)

Active Area 309.504 (H) x 174.096 (V) mm

Weight 360g max (w/LCD)

Diagonal Size 14.0" **Touch enabled** Yes

Contrast Ratio 600:1 (typical)

Refresh Rate 60Hz

Brightness 340nit (typical, @5point)

Pixel Resolution 2560 x 1440

Interface eDP 1.3+PSR (4 lane)

LCD Mode IPS PPI 210

Viewing Angle UWVA 85/85/85



Technical Specifications

STORAGE AND DRIVES

128 GB M2 2280 SATA-3 TLC SSD

Drive Weight 0.019lb ~ 0.022lb

Capacity 128 GB

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Performance Maximum Sequential Read Maximum Sequential Write

Up to 540 MB/s Up to 300 MB/s

Logical Blocks 250069680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA security

180 GB M2 2280 SATA-3 MLC SSD

Drive Weight 0.022 lb (<10 g)

Capacity 180 GB

 Height
 0.09 in (2.23 mm)

 Width
 0.87 in (22 mm)

Interface ATA-8, SATA 3.0, ACS-3, SATA 3.2

Performance Maximum Sequential Read Maximum Sequential Write

Up to 540 MB/s UP to 490 MB/s

Logical Blocks 351651888

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA Security

180 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD **Drive Weight** 0.022 lb (<10 g)

Capacity 180 GB

 Height
 0.09 in (2.23 mm)

 Width
 0.87 in (22 mm)

Interface ATA-8, SATA 3.0, ACS-3, SATA 3.2

Performance Maximum Sequential Read Maximum Sequential Write

Up to 540 MB/s UP to 490 MB/s

Logical Blocks 351651888

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Security Features ATA Security, TCG OPAL 2.x

240 GB M2 2280 SATA-3

MLC SSD

Drive Weight 0.022 lb (<10 g)

Capacity 240 GB

Technical Specifications

 Height
 0.14 in (3.58 mm)

 Width
 0.87 in (22 mm)

 Interface
 ACS-3, SATA 3.2

Performance Maximum Sequential Read Maximum Sequential Write

Logical Blocks 468862128

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA Security

256 GB M2 2280 PCIe-3x4 Drive Weight NVMe SSD Capacity

Drive Weight 0.022 lb. (<10 g)

Capacity 256 GB

 Height
 0.09 in (23mm)

 Width
 0.87 in (22.1mm)

 Interface
 PCIe GEN3X4

Performance Maximum Sequential Read Maximum Sequential Write

Logical Blocks 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security; TRIM; L1.2

256 GB M2 2280 SATA-3 Self-Encrypting Drive (Opal 2) MLC SSD
 Drive Weight
 0.02 lb (<10 g)</td>

 Capacity
 256 GB

Height 0.14 in (3.58 mm) ~ 0.09 in (2.23 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Performance Maximum Sequential Read Maximum Sequential Write

Up to 540 MB/s UP to 460 MB/s

Logical Blocks 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP
Security Features ATA Security; TCG Opal 2.0

256 GB M2 2280 SATA-3 TLC SSD **Drive Weight** 0.019 lb (8.5 g) ~ 0.022 lb (10 g)

Capacity 256 GB

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Performance Maximum Sequential Read Maximum Sequential Write

Logical Blocks 500118192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Technical Specifications

Security Features ATA Security

512 GB M2 2280 SATA-3

TLC SSD

Drive Weight 0.019 lb (8.5 g) ~ 0.02 lb (10 g)

Capacity 512 GB

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Performance Maximum Sequential Read Maximum Sequential Write

Up to 540 MB/s UP to 500 MB/s

Logical Blocks 1000215216

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA Security

NETWORKING/COMMUNICATIONS

HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module

Technology/Operating bands

LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower),

800 (Band 20), 700 (Band 28).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

EV-DO: 850 (BC0), 1900 (BC1) MHz (Only work with Verizon network) E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8)

MHz

Wireless protocol standards

3GPP Release 10 LTE Specification CAT.4, 20MHz BW

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

1xEVDO Release 0, A and B.

E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4

and MSC1 - MSC9

GPS Standalone, A-GPS (MS-A, MS-B and XTRA)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz

Maximum data rates LTE: 150 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

CDMA 1xRTT: 153.6 kbps (Download), 153.6 kbps (Upload) EVDO Rel.A: 3.1 Mbps (Download), 1.8 Mbps (Upload) EVDO Rel.B: 14.7 Mbps (Download), 5.4 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps (Download), 85.6 kbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm 1xRTT/EVDO: 24dBm E-GPRS 1900/1800: 26 dBm E-GPRS 900/850: 27 dBm GPRS 1900/1800: 29.5 dBm

Technical Specifications

GPRS 900/850: 32.5 dBm

Maximum power consumption LTE: 1,200 mA (peak); 900 mA (average)

HSPA+: 1,100 mA (peak); 800 mA (average) 1xRTT/EVDO: 1,000 mA (peak); 700 mA (average) E-GPRS: 2,800 mA (peak); 500 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6.2 q

Dimensions 42 x 30 x 2.3 mm

(Length x Width x Thickness)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.

HP hs3110 HSPA+ Intel® Mobile Broadband Module*

Technology/Operating bands HSPA+: 2100 (Band 1), 1900 (Band 2), 1700 (Band 4), 850 (Band 5), 900 (Band 8) MHz

E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 MHz (Band 5), 900 (Band 8) MHz

WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification

E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9

GPS Standalone, A-GPS

GPS bands 1575.42 MHz ± 1.023 MHz

Maximum data rates HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload)

E-GPRS: 296 kbps (Download), 236.8 kbps (Upload) GPRS: 107 kbps (Download), 85.6 kbps (Upload)

Maximum output power HSPA+: 24 dBm

E-GPRS 1800/1900: 26 dBm E-GPRS 850/900: 27 dBm GPRS 1800/1900: 30 dBm GPRS 850/900: 33 dBm

Maximum power consumption HSPA+: 1,100 mA (peak); 800 mA (average)

E-GPRS: 2,800 mA (peak); 700 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6 g

Dimensions 1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

(Length x Width x Thickness)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

Intel® Dual Band Wireless AC-8260 802.11 a/b/g/n ac (2x2) Bluetooth® 4.2 Combo

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b IEEE 802.11g



Technical Specifications

Interoperability Frequency Band

IEEE 802.11n IEEE 802.11ac Wi-Fi certified 802.11b/g/n

• 2.402 – 2.482 GHz

Note:

The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

802.11a/n

- 4.9 4.95 GHz (Japan)
- 5.15 5.25 GHz
- 5.25 5.35 GHz
- 5.47 5.725 GHz
- 5.825 5.850 GHz

Note: Indonesia no support this band)

Data Rates

- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
- 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)

Modulation

Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security¹

- IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
- AES-CCMP: 128 bit in hardware
- 802.1x authentication
- WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
- WPA2 certification
- IEEE 802.11i
- Cisco Certified Extensions, all versions through CCX4 and CCX
 Lite
- WAPI

Network Architecture Models Roaming

Output Power²

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points

- 802.11b: +16dBm minimum
- 802.11g: +14dBm minimum
- 802.11a: +14dBm minimum
- 802.11n HT20(2.4GHz): +14dBm minimum
- 802.11n HT40(2.4GHz): +12dBm minimum
- 802.11n HT20(5GHz): +14dBm minimum



Technical Specifications

802.11n HT40(5GHz): +12dBm minimum

Power Consumption Transmit: 2.0 W (max)

Receive: 1.6 W (max)

Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT)

Radio disabled: 5 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b, 1Mbps: -94dBm maximum

> 802.11b, 11Mbps: -86dBm maximum 802.11q, 6Mbps: -88dBm maximum 802.11g, 54Mbps: -74dBm maximum 802.11a, 6Mbps: -88dBm maximum 802.11a, 54Mbps: -74dBm maximum 802.11n, MCS07: -69dBm maximum 802.11n, MCS15: -66dBm maximum 802.11ac. 1SS. MCS-0: -86dBm maximum 802.11ac, 1SS, MCS-9: -61dBm maximum 802.11ac, 2SS, MCS-0: -83dBm maximum 802.11ac, 2SS, MCS-9: -58dBm maximum

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

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard

Dimensions Type 2230: 2.3 x 22.0 x 30.0 mm

Type 1630: 2.3 x 16.0 x 30.0 mm

Weight Type 2230: 2.8g

0r

Type 1630: 2g

3.3v +/- 9% **Operating Voltage**

Temperature Operating 14° to 158° F (-10° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C) Operating 10% to 90% (non-condensing)

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

> Operating 0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)

Non-operating

LED Activity LED Amber - Radio OFF; LED White - Radio ON

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

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

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

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2 Compliant **Frequency Band** 2402 to 2480 MHz Number of Available Channels Legacy: 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

Data Rates and Throughput Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps



Altitude

Technical Specifications

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps,

voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device

with a

maximum transmit power of + 4 dBm for BR and EDR.

Receiver Sensitivity

Legacy

Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/4-DQPSK	-80 dBm	-70 dBm
8DPSK	-80 dBm	-70 dBm

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW Selective Suspend 17 mW

Range Legacy Up to 33 ft (10 m)

BLE Up to 99 ft (30 m)

Electrical Interface USB 2.0 compliant

Bluetooth Software Supported

Link Topology

Electrical InterfacePoint to Point, Multipoint Pico Nets up to 7 slaves **Bluetooth Software Supported**Full support of Bluetooth Security Provisions

Security

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications Self-configurable to optimize power conservation in all operating

modes, including Standby, Hold, Park, and Sniff

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

Microsoft Windows Bluetooth Software

Security All necessary regulatory approvals for supported countries, including:

Certifications

Bluetooth Profiles Supported

Power ManagementETS 300 328, ETS 300 826CertificationsLow Voltage Directive IEC950

UL, CSA, and CE Mark Serial Port Profile (SPP)¹

Service Discovery Application Profile (SDAP)

Dial-Up Networking (DUN)1,2

Generic Object Exchange Profile (GOEP)1,2

Object Push Profile (OPP)^{1,2}

Certifications Used Copy Coble Deplacem

Bluetooth Profiles Supported

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

Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP) Audio Video Remote Control Profile (AVRCP)

Bluetooth V4.1/V4.2 support feature V4.1: ESR5/6/7 compliant

V4.2: ESR8 compliant, LE Secure Connection – Basic.



Technical Specifications

POWER

45W 2-prong AC Adapter Dimensions 95mm x 40mm mm x 26.5 mm

Input 90 to 265 VAC

Input Efficiency '87.74% min at 115V/230V

Input frequency range 47 to 63 Hz
Input AC current 1.4 A at 90 VAC

input AC current 1.4 A at 90 V

Output Output power 45W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <8.0A

Connector 2 pin/non-grounded, mates with Smart ID DC connector

Environmental Design Operating 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety Certifications CE Mark - 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.

45W Smart AC Adapter Dimensions 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

Weight 0.386 lb (175g) max

Input 90 to 265 VAC

Input Efficiency '87.74% min at 115V/230V

Input frequency range 47 to 63 Hz
Input AC current 1.4 A at 90 VAC

Output Output power 45W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <8.0A

Connector 3 pin/grounded, mates with interchangeable cords **Environmental Design Operating** 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety*CE Mark - full compliance with LVD and EMC directives
*Worldwide safety standards - IEC60950. EN60950. UL

* 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.

Technical Specifications

* MTBF - over 200,000 hours at 25°C ambient condition.

65W Smart EM AC Adapter

Dimensions 4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)

Weight 0.62 lb (290g) max Input 90 to 265 VAC

> **Input Efficiency** 87% min at 115 VAC

Input frequency range 47 to 63 Hz **Input AC current** 1.7 A at 90 VAC

Output **Output power** 65W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <11.0A

Connector 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating 32° to 95° F (0° to 35° C) temperature

Non-operating (storage)

-4° to 185° F (-20° to 85° C) temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety Certifications

Output

*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.

65W Slim Travel AC Adapter

Dimensions 120mm x 57.6mm x 16.7mm

Weight 0.55 lb (250g) max 90 to 265 VAC Input

> **Input Efficiency** '87% min at 115V/230V

Input frequency range 47 to 63 Hz **Input AC current** 1.7 A at 90 VAC

Output power 65W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit

Connector 3 pin/grounded, mates with Smart ID DC connector

Environmental Design Operating 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage)

-4° to 185° F (-20° to 85° C) temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)



Technical Specifications

Humidity	20% to 95%
Storage Humidity	10% to 95%

EMI and Safety Certifications

*CE Mark - 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.

HP 6-Cell (45.6 Whr) polymer long life battery

Dimensions $(H \times W \times L)$

268mm x 108.1mm x 7.85mm

Weight 0.49lb+/-0.02lb (0.221kg+/-0.010kg)

COSLIGHT CA295386HV/LISHEN SP295380SE Cells/Type

Voltage 11.4V Energy

> **Amp-hour capacity** 4.02Ah **Watt-hour capacity** 45.6Wh

Operating (Charging) **Temperature** 0°C ~ 45°C

1 years

No

Operating (Discharging) -10°C ~ 60°C Non-operating -20°C ~ 60°C 1 month

-20°C ~ 45°C 3 month -20°C ~ 30°C 6 month

System off within 3 hours

Battery Re-Charge Time

Fuel Gauge LED

System in OFF or Standby Mode (need

charging time for both) No

Warranty **Optional Travel Battery Available**

ENVIRONMENTAL

Eco-Label Certifications & declarations

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:

- IT ECO declaration
- **US ENERGY STAR®**
- EPEAT <Gold> registered in the United States. 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 Notebook model is based on a "Typically Configured Notebook".

Energy Consumption (in accordance with US **ENERGY STAR® test**

method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short	8.06 W	8.13 W	8.01 W
idle)			
Normal Operation (Long	2.65 W	2.68 W	2.65 W
idle)			
Sleep	0.37 W	0.38 W	0.37 W
Off	0.16 W	0.18 W	0.16 W



Technical Specifications

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short	28 BTU/hr	28 BTU/hr	27 BTU/hr
idle)			
Normal Operation (Long	9 BTU/hr	9 BTU/hr	9 BTU/hr
idle)			
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

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

Declared Noise	Sound Power	Sound Pressure
Emissions	(L _{WAd} , bels)	(L _{pAm} , decibels)
(in accordance with		
ISO 7779 and ISO 9296)		
Typically Configured –	2.6	14
Idle		
Fixed Disk – Random	2.8	18
writes		

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- · Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries

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

Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)

Battery type: Lithium

Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)

Battery type:



Technical Specifications

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/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 <qold> level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 97.2% recycle-able when properly disposed of at end of life.

Packaging Materials

External: PAPER/Corrugated

337.2 g

Internal: PLASTIC/EPE (Expanded Polyethylene)

21.7 g

PLASTIC/Polvester

20 g

The plastic packaging material contains at least 0% recycled content. The corrugated paper packaging materials contains at least 80% recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):

- 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
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- 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)



Technical Specifications

Packaging Usage

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 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.

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/qo/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/qo/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 Corporate Environmental Information

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

Global Citizenship Report

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

Eco-label certifications

http://www8.hp.com/us/en/hp-

information/environment/ecolabels.html

ISO 14001 certificates:

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755

842 and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

COUNTRY OF ORIGIN

China



Summary of Changes

Туре	Description	Part Number
Cases	HP Business Slim Top Load (up to 14.1" x .75" thick)	H5M91AA
	HP Executive Leather Messenger (up to 14.0" x 1")	KOA31AA
	HP Slim Ultrabook Messenger (up to 15.6" x .88"/22/5mm)	F3W14AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
Stands	HP Adjustable Dual Monitor Stand	AW664AA#xxx
	HP Display and Notebook Stand II	E8G00AA#xxx
Docking	HP UltraSlim Docking Station	D9Y32AA
Input Devices	HP Wireless Mobile Mouse	H2L63AA
	HP X4000b Bluetooth Mouse	H3T50AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP USB Travel Mouse	G1K28AA
	HP Stylish Wireless KB/Mouse	H4B79AA
Adapters	USB Graphics Adapter (DBU PL)	NL571AA/AT
	HP Dock Connector to Ethernet/VGA Adapter	G7U78AA
	HP Wireless Display Adapter	J1V25AA#xxx
Power Adapters	HP 45W Smart AC Adapter (4.5mm) (PL MP only)	H6Y88AA#xxx
	HP 65W Smart AC Adapter (4.5mm)	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
	HP 65W Smart Travel AC Adapter	J0E43AA#xxx
Security	HP Keyed Cable Lock 10mm	T1A62AA
Storage	HP External USB Optical Drive	F2B56AA
Monitors	HP EliteDisplay S270c	
	HP EliteDisplay E272q	K1M38AA
	HP EliteDisplay E240c	M1P04AA
	HP EliteDisplay S140u	M1P00AA
	HP EliteDisplay S240ml	G8R65AA
		F4M47AA

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