Overview

HP EliteBook Revolve

Front, Right

1. WLAN antennas
2. Dual-microphone array
3. Webcam LED
4. 720p HD Webcam
5. Home button
6. WWAN antennas
7. Side docking connector
8. Audio jack
9. MicroSD slot
10. Speaker
11. Volume up/down button
12. Rotation lock button
13. Power button
14. Clickpad image sensor
15. Ambient light sensor

Rear

1. RJ-45 (Ethernet) jack
2. USB 3.0 port
3. Security lock slot
4. DisplayPort v1.1a
5. USB 3.0 port
6. Power connector
QuickSpecs

HP EliteBook Revolve

Overview

1. Vent
2. Speaker

Left

1. Service cover
2. Vents
3. Near Field Communication (NFC) antenna

4. Battery bay cover release latch
5. Battery bay

Bottom

1. AT A GLANCE
   • Windows 8 versions, Windows 7 versions or FreeDOS
   • 11.6-inch diagonal LED-backlit HD UWVA display (1366 x 768) with capacitive multi-touch screen
   • Industrial, business rugged HP DuraCase construction features a full magnesium alloy chassis, wear-resistant HP DuraFinish, and stainless steel hinges
   • The HP Elitebook Revolve meets military standards 810G testing* for drop, vibration, functional shock, dust, altitude, and high and low temperature.
   • Full-sized backlit, spill-resistant keyboard with bottom-case drain
   • Clickpad image sensor
   • Choice of 3rd Generation Intel® Core™ i7, i5 Core with Turbo Boost Technology or 3rd Generation Intel® Core™ i3 Core
QuickSpecs

Overview

- Intel vPro technology (optional support on models with i7 and i5 processors) enables you to remotely monitor, diagnose, and repair PCs over the network, even if a system's OS is inoperable or it is powered off
- Choice of up to 256 GB mSATA Solid State Drive
- Flexible wireless connectivity options:
  - Integrated WWAN modules with GPS support
  - Integrated Intel 802.11a/b/g/n (2x2) wireless LAN module with Bluetooth
  - Integrated Intel 802.11a/b/g/n (2x2) wireless LAN module
- 6-cell polymer long life battery (44 WHr)
- Integrated Intel HD Graphics
- Integrated 720p HD Webcam
- DTS Studio Sound with integrated stereo speakers and dual microphone array
- Separate launch buttons for easy access to the following features: Windows, power, rotation lock, volume up and down
- DisplayPort for high resolution support
- Optional HP Docking Station
- Sensors include Gyroscope, Accelerometer, Compass, Ambient Light Sensor, Near Field Communication (NFC)
- MicroSD slot, Micro-SIM

* 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.
Features

**PRODUCT NAME**
HP EliteBook Revolve 810 Tablet

**OPERATING SYSTEM**

**Preinstalled**
- Windows 8 Pro 64*
- Windows 8 64*
- Windows 7 Professional 64 (available through downgrade rights from Windows 8 Pro)**
- Windows 7 Professional 64***
- Windows 7 Home Premium 64***
- FreeDOS 2.0

**Supported**
- Windows 8 32*
- Windows 8 Pro 32*
- Windows 8 ML 32*
- Windows 8 Enterprise 32*
- Windows 8 Enterprise 64*
- Windows 7 Professional 32***
- Windows 7 Enterprise 32***
- Windows 7 Enterprise 64***
- Windows 7 Ultimate 32***
- Windows 7 Ultimate 64***
- Windows 7 Home Premium 32***
- Windows 7 Home Basic 32***
- Windows 7 Home Basic 64***

* Not all features are available in all editions of Windows 8. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8 functionality. See http://www.microsoft.com/

** This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8 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

** Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

**PROCESSOR**

- 3rd Generation Intel® Core™ i7-3687U (2.1 GHz, 4 MB L3 cache, 2 cores)*
  - Up to 3.30 GHz with Intel Turbo Boost Technology**
- 3rd Generation Intel® Core™ i5-3437U (1.9 GHz, 3 MB L3 cache, 2 cores)*
  - Up to 2.90 GHz with Intel Turbo Boost Technology**
- 3rd Generation Intel® Core™ i3-3227U (1.9 GHz, 3 MB L3 cache, 2 cores)*

* Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

** Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
**QuickSpecs**

**Features**

**CHIPSET**

Mobile Intel® QM77 Express (vPro support on i7 and i5 processors)

**Intel Core i5 with vPro/Core i7 with vPro Technology Capable**

Intel Core i5 with vPro and Core i7 with vPro technology is a selectable feature that is available on units configured with select processors, an Intel Centrino® Advanced-N or Ultimate-N WLAN module and a preinstalled Windows operating system. It provides advances in remote manageability, security, energy efficient performance, and wireless connectivity. Intel Active Management Technology 8.0 (iAMT) offers built-in manageability and proactive security for networked notebook PCs, even when they are powered off* or when the operating system is inoperable. It can help identify threats before they reach the network, isolate infected systems, and update PCs regardless of their power state.

*Requires a Windows operating system, network hardware and software, connection with a power source, and a direct (non-VPN) corporate network connection which is either cable or wireless LAN.

**NOTE:** Some functionality of this technology, such as Intel® Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Microsoft Windows required. For hard drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB for Windows 8 is reserved for system recovery software.

**GRAPHICS**

Integrated:

Intel HD Graphics

**DISPLAY**

Internal

11.6-inch diagonal LED-backlit HD* UWVA multitouch screen (1366 x 768)

- Ultra- Wide-viewing angle
- Capacitive multitouch screen with digitizer
- Tough, durable Corning Gorilla Glass 2

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

* HD content required to view HD images.

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

**STORAGE AND DRIVES**

**Solid State Drive**

Up to 256 GB mSATA

**NOTE:** Solid State Drives (SSD), GB = 1 billion bytes. Actual formatted capacity is less. Up to 30 GB for Windows 8 is reserved for system recovery software.

**MEMORY**
QuickSpecs

Features

**Standard**
- DDR3L PC3-12800 SDRAM (1600 MHz)
- One SODIMM slot supporting dual-channel memory plus 4 GB soldered down
- 4 GB and 8 GB SODIMMs

**Maximum**
- Upgradeable to 12288 MB with optional 8192 MB SODIMM in slot 1 and 4096 MB soldered down

**Dual-channel**
- Maximizes dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

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

**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.

NETWORKING/COMMUNICATIONS

**Wireless**
- 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 and also as an after-market option. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

**Broadband Wireless (WWAN)**
- HP un2430 EV-DO/HSPA Mobile Broadband Module with GPS support
- HP hs2350 HSPA+ Mobile Broadband Module with GPS support

**Wireless LAN (WLAN)**
- Intel Centrino Advanced N 6205, (2x2) a/b/g/n
- Intel 802.11 a/b/g/n (2x2) +Bluetooth Combo

**NOTES:**
1. Wireless access point and Internet service required. Availability of public wireless access points limited.
2. 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.
3. Wireless use requires separately purchased service contract. Check with your local vendor for coverage area and availability in your area. Connection and speeds will vary due to location, environment, network conditions, and other factors. 4G compatibility with HSPA+.

**Communications**
- Integrated Intel 82579LM Gigabit* Network Connection (vPro configurations)

*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.

AUDIO/MULTIMEDIA

**Audio**
- DTS Studio Sound
- Integrated stereo speakers
- Integrated microphone (dual-microphone array)
- Buttons for volume up and down
- Headphone/microphone combo jack

**Webcam**
Features

Integrated 720p HD webcam
- HD format (widescreen)
- Supports videoconferencing and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1280x720 resolution (720p) and up to 30fps
- MJPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range

KEYBOARD/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
The HP full-sized backlit, 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 an industry standard, 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, and 12 function keys. U.S. and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19 mm x 19 mm key pitch (center-to-center spacing), 2.0 mm stroke, and comfort-dished keycaps.

Pointing Devices
Clickpad image sensor

Buttons and Function Keys

Function keys are:
- F1 - Ambient Light Sensor
- F2 - Battery Gauge
- F3 - Sleep
- F4 - Display Switching
- F5 - Speaker Mute
- F6 - Volume Down
- F7 - Volume Up
- F8 - mic mute
- F9 - Brightness Down
- F10 - Brightness Up
- F11 - Backlit
- F12 - WiFi toggle

SENSORS

Gyroscope
Accelerometer
Compass
Ambient Light Sensor
Near Field Communication (NFC)

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System
QuickSpecs

Features

HP ePrint*
PDF Complete Corporate Edition
Evernote
Adobe® Flash Player
Cyberlink Media Suite
  • Cyberlink PowerDVD
  • Cyberlink Media Suite (Windows App) (Windows 8 only)
  • Cyberlink Media Suite (Desktop App)
  • Cyberlink YouCam (Windows App) (Windows 8 only)
  • Cyberlink YouCam BE (Desktop App)
  • Cyberlink Photo Director
  • Cyberlink Power Director
Skype ready*
Skitch (Windows 8 only)
HP PageLift
Intel WiDi (with select configurations)
Buy Office

* 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).

** 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.

Security

Standard
Common Criteria EAL4+ Augmented Certified Discrete TPM 1.2 Embedded Security Chip
Security lock slot
HP BIOS (BIOS Protection)
Secure Erase
Computrace Persistence
DriveLock and Automatic DriveLock
Preboot Security
Master Boot Record recovery (Windows 7 only)
HP Client Security Software:
  • Drive Encryption
  • Credential Manager
  • Password Manager
  • Absolute Data Protect (Windows 8 only)
  • Computrace (Windows 7 only)
  • Face Recognition
  • One Step Logon
  • SpareKey
Device Access Manager with Just In Time Authentication
Embedded Security (Windows 7 only)
Privacy Manager (Windows 7 only)
Microsoft Security Essentials (Windows 7 only)
DigitalPass (Windows 7 only)
Central Management capable

Optional
HP Combo Lock
QuickSpecs

Features

1 For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
2 Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription.
Subscriptions can be purchased for terms ranging for multiple years. Service is limited, check with Absolute for availability outside the U.S.
3 Requires Microsoft Windows.
4 Requires initial user setup.
5 Opt-in and Internet connection required for updates
6 In order to deploy and receive updated policies, the client needs to be connected to the network server and requires separately purchased DigitalPersona Pro software. System access may not prevent users from logging into the system on the first attempt if policy updates haven’t yet been received and applied.
For more information on HP security solutions refer to: http://www.hp.com/go/security.
7 HP Revolve with Windows 8 includes includes a 4 year license of Absolute Data Protect to locate your device, lock and prevent unauthorized access and remotely delete personal data. See http://www.absolute.com/landing/2012/computrace-hp for complete details. Absolute Data Protect agent is shipped turned off, and must be activated by customers. Service may be limited, check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
8 HP Revolve with Windows 7 includes the Computrace agent, shipped turned off, and is activated with customer purchase of a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

Management
LANDesk Management Suite (optional)\(^1,2\)
LANDesk Security Suite (optional)\(^1,2\)
HP System Software Manager (available at no charge as a download from the web)
HP Softpaq Download Manager (available at no charge as a download from the web)

\(^1\) Sold separately or as an optional feature.
\(^2\) Location based functionality planned to be available in May 2013 and requires active LANdesk maintenance service or purchase of updated LANdesk license with location based settings when available.

POWER

Power Supply
External HP 45W Slim Smart AC Adapter
Power cord included is 5.91-foot (1.8 meter).
Total length including external AC adapter is \(x\) feet (\(x\) meter).

Primary Battery
HP 6-cell polymer long life (44WHr)

Battery Life

HP 6-cell polymer long life battery Up to 8 hours and 30 minutes (with Windows 7)*
(44WHr) Up to 8 hours and 15 minutes (with Windows 8)**
QuickSpecs

HP EliteBook Revolve

Features

System Standby Time
Up to 137 hours

Power Conservation
Supports enhanced Intel SpeedStep technology (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)
Intel Display Power Saving technology
Hibernation
Standby
ACPI compliance
* 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.
** Testing conducted by HP consisting of full battery discharge while running a series of productivity scripts against the following applications (which may or may not be included with your particular product): Adobe® AcrobatReader 7.0, Adobe® Illustrator® CS2, Adobe® Photoshop® CS2, Apple® Quicktime 7.1, Intervideo® WinDVD® 8, Macromedia® Flash 8, Microsoft® Office® 2003 Pro, Microsoft® Project 2003, and Winzip® 10.0. Prior to testing, the system was fully charged, display brightness was set at 60 nits, wireless was turned off, and auto dim, suspend, hibernate and all other non-essential operation programs, utilities, and services to operation and battery testing were disabled. Battery life will vary depending on the 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.

ENVIRONMENTAL

- US Energy Star ®
- IT ECO declaration

WEIGHTS & DIMENSIONS

Weight
Starting at 3.08 lb (1.40 kg) (weight will vary by configuration)

Dimensions (w x d x h)
8.34 x 11.22 x 0.80 in (at front) / 212 x 285 x 22.2 mm (at front)

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, lightest SSD, and 1 SODIMM.

PORTS/SLOTS

Ports
DisplayPort – One (v1.1a)
Stereo headphone/microphone combo jack – One
Power Connector – One
Side Docking Connector – One
RJ-45 (Ethernet) – One
USB 3.0 – One
QuickSpecs

HP EliteBook Revolve

Features

- USB 3.0 charging - One
- Digital Media Slots
- Micro-SIM, Micro SD Media Reader Slot - supports SD, SDHC, SDXC

SERVICE AND SUPPORT

Limited, 90-day warranty, depending on country); 1 and 3 year limited warranty options available. 3-year limited warranty on battery. Optional HP Care Pack Services are extended service contracts which go beyond your standard warranties. For more details visit: http://www.hp.com/go/cpc

## Technical Specifications

### System Unit

<table>
<thead>
<tr>
<th>Stand-Alone Power Requirements (AC Power)</th>
<th>Nominal Operating Voltage</th>
<th>Average Operating Power</th>
<th>Max Operating Power</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>110/220 V</td>
<td>10.2 W</td>
<td>&lt; 45 W</td>
</tr>
</tbody>
</table>

### Temperature

| Operating | 32° to 95° F (0° to 35° C) (not writing optical) |
| Non-operating | 41° to 95° F (5° to 35° C) (writing optical) |

### 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 | 40 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 (unpressurized)

| Operating | -50 to 10,000 ft (-15.24 to 3,048 m) |
| Non-operating | -50 to 40,000 ft (-15.24 to 12,192 m) |

### Planned Industry Standard Certifications

- UL
- CSA
- FCC Compliance
- ENERGY STAR®
- EPEAT
- ICES
- Australia / NZ A-Tick Compliance
- CCC
- Japan VCCI Compliance
- KC
- BSMI
- CE Marking Compliance
- BNCI or BELUS
- CIT
- GOST
- Saudi Arabian Compliance (ICCP)
- SABS
- UKRSERTCOMPUTER

* Configurations of the HP EliteBook Revolve that are ENERGY STAR qualified are identified as HP EliteBook Revolve ENERGY STAR on HP websites and on www.energystar.gov.

** EPEAT registration varies by country. See www.epeat.net for registration status by country.

EPEAT status listed above applies to U.S.

For accessibility information on HP products, please visit: [http://www.hp.com/accessibility](http://www.hp.com/accessibility).

### Displays

<table>
<thead>
<tr>
<th>11.6-inch LED HD (1366 x 768)</th>
<th>Active Area</th>
<th>Dimensions (W x H)</th>
<th>Diagonal Size</th>
<th>Contrast Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9.88 x 5.67 in (25.61 x 14.40 cm)</td>
<td>11.53 x 6.49 in (29.3 x 16.5 cm)</td>
<td>11.6 in (29.46 cm)</td>
<td>300:1 (typical)</td>
</tr>
</tbody>
</table>
### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refresh Rate</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Brightness</td>
<td>400 nit (typical)</td>
</tr>
<tr>
<td>Pixel Resolution</td>
<td>Format 1366 x 768</td>
</tr>
<tr>
<td></td>
<td>Configuration RGB Stripe</td>
</tr>
<tr>
<td>Backlight</td>
<td>LED</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>40/40/15/30 (Left/Right/Down/Up) (typical)</td>
</tr>
</tbody>
</table>

### STORAGE AND DRIVES

**Internal Storage**

<table>
<thead>
<tr>
<th>128 GB mSATA Solid State Drive</th>
<th>Drive Weight</th>
<th>10 Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>128 GB</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>0.147 in (3.75 mm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>1.18 in (29.85 mm)</td>
<td></td>
</tr>
<tr>
<td>Interface</td>
<td>SATA 3 (6 Gb/s)</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td>Maximum Sequential Read: Up to 450 MB/s</td>
<td>Maximum Sequential Write: Up to 260 MB/s</td>
</tr>
<tr>
<td>Logical Blocks</td>
<td>250,069,680</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 158°F (0° to 70°C) [case temp]</td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>ATA Security; ATA-8; SATA 3.0; DIPM</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>256 GB mSATA Solid State Drive</th>
<th>Drive Weight</th>
<th>Up to 10 Grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>256 GB</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>Up to 0.191 in (Up to 4.85 mm)</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>1.18 in (29.85 mm)</td>
<td></td>
</tr>
<tr>
<td>Interface</td>
<td>SATA 3 (6 Gb/s)</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td>Maximum Sequential Read: Up to 510 MB/s</td>
<td>Maximum Sequential Write: Up to 400 MB/s</td>
</tr>
<tr>
<td>Logical Blocks</td>
<td>500,118,192</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° to 158°F (0° to 70°C) [case temp]</td>
<td></td>
</tr>
<tr>
<td>Features</td>
<td>ATA Security; ATA-8, SATA 3.0; DIPM; TRIM</td>
<td></td>
</tr>
<tr>
<td>Security Features</td>
<td>TCG Opal 2 compliant</td>
<td></td>
</tr>
</tbody>
</table>

### NETWORKING/COMMUNICATIONS

**Intel® 82579LM Gigabit Network Connection**

<table>
<thead>
<tr>
<th>Ethernet Features</th>
<th>10 Mbit/s operation (10BASE-T; IEEE 802.3; IEEE 802.3 clauses 13-14)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 Mbit/s operation (10BASE-T; IEEE 802.3; IEEE 802.3 clauses 13-14)</td>
</tr>
<tr>
<td></td>
<td>100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)</td>
</tr>
<tr>
<td></td>
<td>1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023. Clauses 40)</td>
</tr>
<tr>
<td></td>
<td>Auto-Negotiation (Automatic Speed Selection)</td>
</tr>
<tr>
<td></td>
<td>Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.1p QoS (Quality of Service) Support</td>
</tr>
</tbody>
</table>
QuickSpecs

Technical Specifications

IEEE 802.1q VLAN support
IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
IEEE 802.3az EEE (Energy Efficient Ethernet)
Jumbo Frame 9K
Auto MDI/MDIX Crossover cable detection

Power Management
ACPI compliant - multiple power modes
Energy Detect Low Power Mode (Green Ethernet)

Performance Features
TCP/IP/UDP Checksum Offload (configurable)
Protocol Offload (ARP & NS)
Large send offload and Giant send offload
Receiving Side Scaling
MACSec Offload (802.3ae)
Intel vPro
iSCSI Boot

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
Virtual Cable Doctor for Ethernet cable status

Interface
PCI Express 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ.
NOTE: Intel 82579 PCIe interface is not PCIe compliant. It operates at half of PCIe specification V1.1 (2.5GT/S) speed.

NIC Device Driver Name
Intel 82579LM/82579V Ethernet Network Connection

HP un2430 EV-DO/HSPA Mobile Broadband Module

Technology/Operating 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), AWS (UTRA FDD Band IV), 900MHz (UTRA FDD Band VIII), 850MHz (UTRA FDD Band V)
1xEVDO/1xRTT with receive diversity: 850MHz (Band Class0-Cell), 1900MHz (Band Class1-PCS)

Wireless Protocol Standards
GSM/GPRS/EDGE: Class A, Multi-slot class 10 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-856, IS-2000

Wireless Parametric Standards
Meets or exceeds TIA/EIA IS-98-D

Maximum Data Rates
UMTS (HSPA) - 14.4 Mbps (Download), 5.76 Mbps (Upload)
CDMA (EVDO Release A) - 3.1 Mbps (Download), 1.8 Mbps (Upload)
### GPS
- Standalone GPS enabled
  - gpsOneXTRATM™

### GPS Bands
- L1 - 1575.42 MHz

### Maximum Output Power
- GSM/GPRS/EDGE: 32dBm (+/-1)
- WCDMA: 24dBm (+0.7/-2.3)
- CDMA: 24dBm (+0.7/-2)

### Maximum Power Consumption
- 2750mA (peak); 1100mA (average)

### Power Consumption, Idle Not Connected
- 20 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

### Dimensions (Length x Width x Thickness)
- 2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)

### Voltage, Operating
- 3.3v +/- 10%

### Temperature, Operating
- -22° to 158° F (-30° to 70° C) (full RF performance)
- -22° to 167° F (-30° to 75° C) (reduced RF performance)

### Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)
- -40° to 185° F (-40° to 85° C)

### Humidity, Non-operating
- 95% 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

### HP hs2350 HSPA+ Mobile Broadband Module

<table>
<thead>
<tr>
<th>Technology/Operating</th>
<th>GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS), 1900MHz (PCS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bands</td>
<td>UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), 900MHz(UTRA FDD Band VIII), 850 MHz (UTRA FDD Band V)</td>
</tr>
<tr>
<td>Standards</td>
<td>UMTS/WCDMA: Release 99 and Release 7 Advanced Receiver Type 3i Complies with 3GPP specifications</td>
</tr>
<tr>
<td>Maximum Data Rates</td>
<td>UMTS (HSPA) – 21 Mbps (Download ), 5.76Mbps (Upload) Standalone, A-GPS (Internet- and Network assisted)</td>
</tr>
<tr>
<td>GPS</td>
<td>1575.42 MHz (± 1.023 MHz)</td>
</tr>
<tr>
<td>GPS Bands</td>
<td>GSM/EDGE GSM850 &amp; GSM900 bands</td>
</tr>
</tbody>
</table>
QuickSpecs

Technical Specifications

GPRS: +33 dBm ± 2 dBm (class 4)
EGPRS: +27 dBm ± 3 dBm (class E2)

DCS1800 & PCS1900 bands
GPRS: +30 dBm ± 2 dBm (class 1)
EGPRS: +26 dBm +4 / -3 dBm (class E2)

UMTS
UTRA FDD Bands
+24 dBm +4 / -3 dBm (class 3)

Maximum Power Consumption
Power Consumption, Sleep Mode
Power Management
Antenna Type
Form Factor
Weight
Dimensions (Length x Width x Thickness)
Voltage, Operating
Temperature, Operating
Temperature, Non-operating, 96 hours (from MIL-STD 202 Method 108)
Humidity, Non-operating
Configuration Utilities
LED Activity

Intel Centrino Advanced-N 6205 (2x2)

Wireless LAN Standards
IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n*

Interoperability
Wi-Fi certified

Frequency Band
2.4 GHz and 5 GHz

Antenna Structure
2 transmit; 2 receive (2x2)

Data Rates
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b: 1, 2, 5.5, 11 Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: 66 possible data rates, ranging from 6 Mbps to 300 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n specification
## Technical Specifications

### Modulation
Direct Sequence Spread Spectrum
DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

### Security
1. Authentication: WPA and WPA2, 802.1x (EAP_TLS, TTLS, PEAP, LEAP, EAP-FAST)

   Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2

   Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP

   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)
- Infrastructure (Access Point Required)

### Roaming
IEEE 802.11 compliant roaming between 2.4GHz band Access Points

### Output Power (for CCK and OFDM)
17 dBm max

### Power Consumption
- Transmit: 2.3 Watts (max, with two spatial streams)
- Receive: 1 Watt (max with two spatial streams)
- Idle mode: 35 mW (average)
- Radio off: 20 mW (max)

### Power Management
- ACPI compliant power management
- 802.11 compliant power saving mode

### Receiver Sensitivity
54 Mbps: -76 dBm, 6 Mbps: -92 dBm

### Antenna Connections
2 U.FL type connectors, 50 ohm nominal impedance

### Form Factor
PCI-Express Half-MiniCard

### Weight
0.0075 lb (3.4 g)

### Dimensions
0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

### Operating Voltage
3.3V +/- 9%

### Temperature
- Operating: 32° to 176° F (0° to 80° C)
- Non-operating: -40° to 176° F (-40° to 80° C)

### Humidity
- Operating: 10% to 90% (non-condensing)
- Non-operating: 5% to 90% (non-condensing)

### Altitude
- Operating: 0 to 10,000 ft (3,048 m)
- Non-operating: 0 to 50,000 ft (15,240 m)

### 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. In Power Save Polling mode and on battery power.
4. 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).
5. 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.

**Intel 802.11a/b/g/n (2x2)**

**Wireless LAN Standards**
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n

**Interoperability**
- Wi-Fi certified

**Frequency Band**
- 2.4 GHz and 5GHz

**Antenna Structure**
- 2 transmit; 2 receive (2x2)

**Data Rates**
- 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11b: 1, 2, 5.5, 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- 802.11n: 66 possible data rates, ranging from 6 Mbps to 300 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n specification

**Modulation**
- Direct Sequence Spread Spectrum
- DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

**Security**¹
- Authentication: WPA and WPA2, 802.1x (EAP_TLS, TTLS, PEAP, LEAP, EAP-FAST)
- Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2
- Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP
- 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 Models**
- Ad-hoc (Peer to Peer)
- Infrastructure (Access Point Required)

**Roaming**
- IEEE 802.11 compliant roaming between 2.4GHz band Access Points

**Output Power (for CCK and OFDM)**²
- 17 dBm max

**Power Consumption**
- Transmit: 2.3 Watts (max, with two spatial streams)
- Receive: 1 Watt (max with two spatial streams)
- Idle mode³: 35 mW (average)
- Radio off: 20 mW (max)

**Power Management**
- ACPI compliant power management
- 802.11 compliant power saving mode

**Receiver Sensitivity**³
- 54 Mbps: -76 dBm, 6 Mbps: -92 dBm

**Antenna Connections**
- 2 U.FL type connectors, 50 ohm nominal impedance

**Form Factor**
- PCI-Express Half-MiniCard
QuickSpecs

HP EliteBook Revolve

Technical Specifications

Weight 0.0075 lb (3.4 g)
Dimensions 0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)
Operating Voltage 3.3V +/- 9%
Temperature
Operating 32° to 176° F (0° to 80° C)
Non-operating -40° to 176° F (-40° to 80° C)
Humidity
Operating 10% to 90% (non-condensing)
Non-operating 5% to 90% (non-condensing)
Altitude
Operating 0 to 10,000 ft (3,048 m)
Non-operating 0 to 50,000 ft (15,240 m)
LED Activity LED Off - Radio OFF; Solid LED On - Radio ON

6. Check latest software/driver release for updates on supported security features.
7. Maximum output power may vary by country according to local regulations.
8. In Power Save Polling mode and on battery power.
9. 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).
10. 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.

AUDIO/MULTIMEDIA

Audio

DTS Studio Sound (Windows OS only)

Hardware

Implementation IDT 92HD91 High Definition CODEC
Function Key Volume Controls Volume up, volume down, and mute
Mute Buttons Playback and Record mute buttons with LED indicator
Full Duplex Yes
Microphone In Stereo
Headphone/Line Out Stereo
Integrated Microphone Yes, dual digital 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 Rate(s) 8 kHz – 48kHz
DAC 16, 20 or 24-bit
ADC 16 or 20-bit

Integrated Stereo Speakers

Power Rating 1 Watt
Impedance 8 Ohms

POWER
## Technical Specifications

### HP 45W Slim Smart AC Adapter

<table>
<thead>
<tr>
<th>Dimensions (H x W x D)</th>
<th>9.60 x 4.95 x 2.24 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>90 to 265 VAC</td>
</tr>
<tr>
<td>Input Efficiency</td>
<td>87% min at 115 VAC</td>
</tr>
<tr>
<td>Input frequency range</td>
<td>47 to 63 Hz</td>
</tr>
<tr>
<td>Input AC current</td>
<td>1.4 A at 90 VAC and maximum load</td>
</tr>
</tbody>
</table>

### Output

| Output power          | 45W                   |
| DC output             | 19.5V                 |
| Hold-up time          | 5 msec at 115 VAC input |
| Output current limit  | <8A, Over voltage protection - 29V max automatic shutdown |

#### Connector

3 pin/grounded, mates with interchangeable cords

### Environmental Design

#### Operating temperature

<table>
<thead>
<tr>
<th>Temperature</th>
<th>32° to 95° F (0° to 35° C)</th>
</tr>
</thead>
</table>

#### Non-operating (storage) temperature

<table>
<thead>
<tr>
<th>Temperature</th>
<th>-4° to 121° F (-20° to 85° C)</th>
</tr>
</thead>
</table>

#### Altitude

<table>
<thead>
<tr>
<th>Altitude</th>
<th>0 to 16,405 ft (0 to 5,000 m)</th>
</tr>
</thead>
</table>

#### Humidity

| Humidity              | 0% to 95%                     |

### EMI and Safety Certifications

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; Reliability - failure rate of less than 0.1% annually within the first three years of operation.

### HP 6-cell (44 WHr) Polymer Primary battery

<table>
<thead>
<tr>
<th>Dimensions (H x W x L)</th>
<th>1.11 x 28.1 x 10.3 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (max)</td>
<td>3.10g</td>
</tr>
<tr>
<td>Cells/Type</td>
<td>6-cell Polymer</td>
</tr>
</tbody>
</table>

#### Energy

<table>
<thead>
<tr>
<th>Voltage</th>
<th>11.1V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp-hour capacity</td>
<td>4.0Ah</td>
</tr>
<tr>
<td>Watt-hour capacity</td>
<td>44Wh</td>
</tr>
</tbody>
</table>

#### Temperature

<table>
<thead>
<tr>
<th>Operating (Charging)</th>
<th>32° to 113° F (0° to 45° C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating (Discharging)</td>
<td>14° to 122° F (-10° to 50° C)</td>
</tr>
<tr>
<td>Non-operating</td>
<td>-4° to 122° F (-20° to 50° C)</td>
</tr>
</tbody>
</table>

#### Battery Re-Charge Time

| System in OFF or Standby Mode | 2.5 hours |
| System ON                      | 3-5 hours  |

#### Fuel Gauge LED

No

#### Optional Travel Battery Available

No

---

**ENVIRONMENTAL**
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 desktop 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 is based on a "Typically Configured Notebook".

Energy Consumption (in accordance with US ENERGY STAR® test method):

<table>
<thead>
<tr>
<th>Mode</th>
<th>115VAC, 60Hz</th>
<th>230VAC, 50Hz</th>
<th>100VAC, 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Operation</td>
<td>7.99 W</td>
<td>7.83 W</td>
<td>7.60 W</td>
</tr>
<tr>
<td>(Short idle)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal Operation</td>
<td>6.20 W</td>
<td>6.12 W</td>
<td>5.88 W</td>
</tr>
<tr>
<td>(Long idle)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleep</td>
<td>0.81 W</td>
<td>0.86 W</td>
<td>0.81 W</td>
</tr>
<tr>
<td>Off</td>
<td>0.44 W</td>
<td>0.50 W</td>
<td>0.44 W</td>
</tr>
</tbody>
</table>

Heat Dissipation*:

<table>
<thead>
<tr>
<th>Mode</th>
<th>115 VAC</th>
<th>230 VAC</th>
<th>100 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Operation</td>
<td>27 BTU/hr</td>
<td>27 BTU/hr</td>
<td>26 BTU/hr</td>
</tr>
<tr>
<td>(Short idle)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal Operation</td>
<td>21 BTU/hr</td>
<td>21 BTU/hr</td>
<td>20 BTU/hr</td>
</tr>
<tr>
<td>(Long idle)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleep</td>
<td>3 BTU/hr</td>
<td>3 BTU/hr</td>
<td>3 BTU/hr</td>
</tr>
<tr>
<td>Off</td>
<td>2 BTU/hr</td>
<td>2 BTU/hr</td>
<td>2 BTU/hr</td>
</tr>
</tbody>
</table>

* 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)
### Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>Sound Power (LWAd, bels)</th>
<th>Sound Pressure (LpAm, decibels)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System Fan Off</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Idle</td>
<td>3.2</td>
<td>25</td>
</tr>
<tr>
<td>Fixed Disk (random writes)</td>
<td>3.1</td>
<td>25</td>
</tr>
</tbody>
</table>

System fan is usually off except when charging the battery.

### 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

The battery type and chemistry used in the product is:

CR2032 (coin cell), Li-ion

6-cell high capacity Polymer battery

### Additional information

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 30.6% post consumer recycled plastic (by wt.)

This product is greater than 90.2% recycle-able when properly disposed of at end of life.

**Packaging Materials**

*External:*
  - PAPER/Corrugated: 340 g

*Internal:*
  - PLASTIC/EPE-Expanded Polyethylene: 80 g
QuickSpecs

HP EliteBook Revolve

Technical Specifications

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLASTIC/Polyethylene low density</td>
<td>25 g</td>
</tr>
<tr>
<td>PLASTIC/PET</td>
<td>500 g</td>
</tr>
<tr>
<td>OTHER/OTHER</td>
<td>1450 g</td>
</tr>
</tbody>
</table>

- The PAPER/Corrugated packaging material is made from 30% recycled content.
- The OTHER/OTHER packaging material is made from 30% recycled content.
- The PLASTIC/Polyethylene low density packaging material is made from 30% recycled content.
- The PLASTIC/EPE-Expanded Polyethylene packaging material is made from 30% recycled content.
- The PLASTIC/PET packaging material is made from 30% 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 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
QuickSpecs

Technical Specifications

- 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 CORPORATE ENVIRONMENTAL INFORMATION

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

Global Citizenship Report
Environment website
http://www.hp.com/environment
Eco-label certifications
ISO 14001 certificates:
http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html
# QuickSpecs

## HP EliteBook Revolve

### Options and Accessories (sold separately and availability may vary by country)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Memory</strong></td>
<td>HP 2GB DDR3 1600 PC3-12800 SODIMM</td>
<td>H2P63AA#xxx</td>
</tr>
<tr>
<td></td>
<td>HP 4GB DDR3 1600 PC3-12800 SODIMM</td>
<td>H2P64AA#xxx</td>
</tr>
<tr>
<td></td>
<td>HP 8GB DDR3 1600 PC3-12800 SODIMM</td>
<td>H2P65AA#xxx</td>
</tr>
<tr>
<td><strong>Cases</strong></td>
<td>HP Essential Top Load Case (up to 15.6&quot;)</td>
<td>H2W17AA#xxx</td>
</tr>
<tr>
<td></td>
<td>HP Essential Backpack (up to 15.6&quot;)</td>
<td>H1D24AA</td>
</tr>
<tr>
<td></td>
<td>HP Essential Messenger Case (up to 17.3&quot;)</td>
<td>H1D25AA</td>
</tr>
<tr>
<td></td>
<td>HP Deluxe 4 wheel Roller Case (up to 17.3&quot;)</td>
<td>XW576AA</td>
</tr>
<tr>
<td></td>
<td>HP Business Nylon Backpack (up to 17.3&quot;)</td>
<td>BP849AA</td>
</tr>
<tr>
<td></td>
<td>HP Business Nylon Case (up to 15.6&quot;)</td>
<td>BP848AA</td>
</tr>
<tr>
<td></td>
<td>HP BP848 TAA Business Nylon Top Load (up to 15.6&quot;)</td>
<td>LU934AA#ABA</td>
</tr>
<tr>
<td></td>
<td>HP Elite Leather Messenger</td>
<td>AX676AA</td>
</tr>
<tr>
<td></td>
<td>HP Professional Series Designer Tote (up to 15.6&quot;)</td>
<td>AT889AA</td>
</tr>
<tr>
<td></td>
<td>HP Elite Series Designer Tote (up to 15.6&quot;)</td>
<td>AT891AA</td>
</tr>
<tr>
<td></td>
<td>HP Professional Series Carrying Case (up to 15.6&quot;)</td>
<td>H4J90AA</td>
</tr>
<tr>
<td></td>
<td>HP Professional Series Carrying Case TSA (up to 15.6&quot;)</td>
<td>H4J92AA</td>
</tr>
<tr>
<td></td>
<td>HP Professional Series Backpack (up to 15.6&quot;)</td>
<td>H4J93AA</td>
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<td>HP Professional Leather Case (up to 17.3&quot;)</td>
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<td>HP Business Slim Top Load (up to 14.1&quot; x .75&quot; thick)</td>
<td>H2T13AA</td>
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<td><strong>Docking</strong></td>
<td>HP Adjustable Dual Monitor Stand</td>
<td>AW664AA#xxx</td>
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<td>HP Adjustable Display Stand</td>
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<td>HP Display and Notebook Stand</td>
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<td>HP LCD Monitor Stand</td>
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<td>HP Dual Hinge Notebook Stand</td>
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<td>HP USB 2.0 Port Replicator</td>
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<td>HP USB 3.0 Port Replicator</td>
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<td>HP UltraSlim Docking Station</td>
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<td><strong>Input/Output – Mice</strong></td>
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<td>HP Wireless Mobile Mouse</td>
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<td>HP USB Essential Keyboard/Mouse</td>
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<td>HP X6000 Mouse</td>
<td>H2L62AA#XXX</td>
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<td>HP 3-button USB Laser Mouse</td>
<td>H4B81AA</td>
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<td>HP X4000b Bluetooth Mouse</td>
<td>H3T50AA#xxx</td>
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<td><strong>Input/Output – Keyboard</strong></td>
<td>HP Stylish Wireless KB/Mouse</td>
<td>H4B79AA</td>
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<td>HP Stylish USB KB/Mouse</td>
<td>H4B80AA</td>
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<td></td>
<td>HP Wireless Mini Keyboard</td>
<td>A3X55AA#xxx</td>
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<td>HP Slim BT Keyboard US</td>
<td>H4Q44AA#ABA</td>
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<td><strong>Input/Output - Other</strong></td>
<td>HP USB Ethernet Adapter</td>
<td>XZ613AA#ABA</td>
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<td>USB Graphics Adapter</td>
<td>NL571AT</td>
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<td>USB Graphics Adapter (DBU PL)</td>
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**Input/Output - Projector**

- HP Notebook Projection Companion | LQ552AA#xxx
**Adapters**

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<thead>
<tr>
<th>Adapter Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>90W Slim Combo Adapter</td>
<td>H4A41AA#xxx</td>
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<tr>
<td>90W w/USB Universal Adapter</td>
<td>H4A43AA#ABA</td>
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<tr>
<td>90W Smart AC/Auto/Air Combo Adapter</td>
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<td>90W Smart Auto/Truck Adapter</td>
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<td>HP Smart 65W Travel AC Adapter</td>
<td>AU155AA#xxx</td>
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<tr>
<td>HP 65W Slim Adapter</td>
<td>AX727AA#xxx</td>
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<tr>
<td>65W Smart AC Adapter</td>
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<td>90W Slim Adapter</td>
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**Storage - External Storage**

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<tr>
<td>HP Mobile USB DVDRW Non-LS</td>
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**Platform Battery**

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<th>Battery Description</th>
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<tr>
<td>HP OD06XL Long Life Notebook Battery</td>
<td>H6L25AA</td>
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**Health and Education**

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<tr>
<td>20 Notebook Managed Charging Cart</td>
<td>QL489AA#xxx</td>
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<tr>
<td>20 Notebook Charging Cart</td>
<td>QL488AA</td>
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<td>30 Notebook Managed Charging Cart</td>
<td>QL490AA</td>
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<tr>
<td>30 Notebook Charging Cart</td>
<td>H4F31AA#ABA</td>
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<tr>
<td>HP Presentation Station Projector Shelf</td>
<td>QN034AA</td>
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<tr>
<td>HP Presentation Station 1000</td>
<td>QL815AA</td>
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<tr>
<td>HP Pocket Whiteboard (3 year warranty)</td>
<td>A0X37AA#xxx</td>
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**Security**

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<tr>
<td>HP Docking Station Cable Lock</td>
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<tr>
<td>HP UltraSlim Keyed Cable Lock</td>
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QuickSpecs

HP EliteBook Revolve

Options and Accessories (sold separately and availability may vary by country)

Summary of Changes

<table>
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<tr>
<th>Date of change:</th>
<th>Version History:</th>
<th>Description of change:</th>
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<tr>
<td>June 4, 2014</td>
<td>From vFeb’14 to vJun’14</td>
<td>Changed Environmental specs</td>
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<tr>
<td>July 16, 2014</td>
<td>From vJune’14 to v19</td>
<td>Changed Version number to match PB.</td>
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