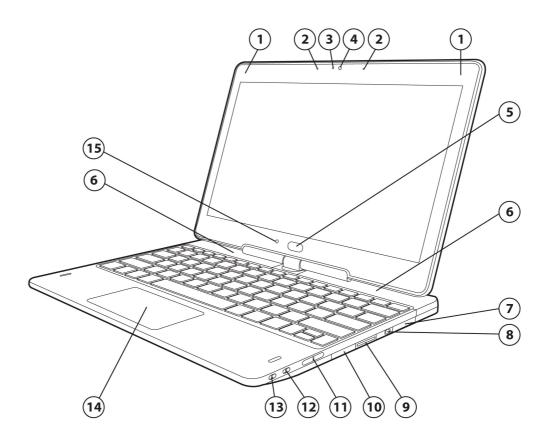
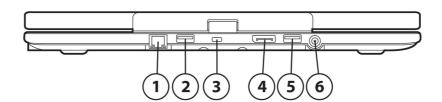
Overview



- 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

Front, Right

- 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



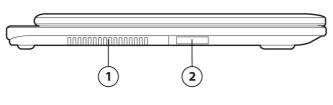
Rear



Overview

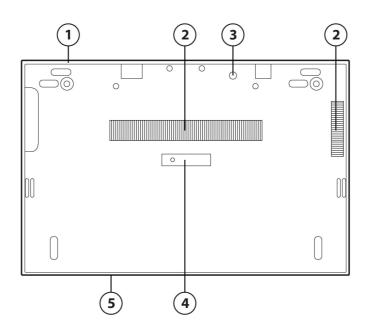
- 1. RJ-45 (Ethernet) jack
- 2. USB 3.0 port
- 3. Security lock slot

- 4. DisplayPort v1.1a
- 5. USB 3.0 port
- 6. Power connector



Left

- 1. Vent
- 2. Speaker



Bottom

- . Service cover 4. Battery bay
- 2. Vents
- 3. Near Field Communication (NFC) antenna

- 4. Battery bay cover release latch
- 5. Battery bay

Overview

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
- 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:
 - O Integrated WWAN modules with GPS support
 - O Integrated Intel 802.11a/b/g/n (2x2) wireless LAN module with Bluetooth
 - O 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
- Security features including HP Client Security, Common Criteria Certified Discrete TPM 1.2 Embedded Security Chip, and Security lock slot
- 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.

Features

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.

CHIPSET

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

INTEL CORE 15 WITH VPRO/CORE 17 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



Features

DISPLAY

Internal

11.6-inch diagonal LED-backlit HD* UWVA touchscreen (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 2560×1600 , 30-bit color depth at 60 Hz, and full HD (1920×1080) 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

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

Maximized 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.



Features

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 only. Integrated Bluetooth is also available as both a factory configurable and after-market option 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^{1, 2} HP hs2350 HSPA+ Mobile Broadband Module with GPS support^{1, 2}

Wireless LAN (WLAN)

Intel Centrino Advanced N 6205, (2x2) a/b/g/n^{1,3} Intel 802.11 a/b/g/n (2x2) +Bluetooth Combo^{1,3}

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

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
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range



Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features 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

Accelerometer Compass Ambient Light Sensor Near Field Communication (NFC)

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

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)



Features

- 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). 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. ** Internet access required.

Security

Standard

Common Criteria EAL4+ Augmented Certified Discrete TPM 1.2 Embedded Security Chip Security lock slot HP BIOS (BIOS Protection)

Secure Erase¹

Computrace Persistence²

DriveLock and Automatic DriveLock

Preboot Security

Master Boot Record recovery (Windows 7 only)

HP Client Security Software³:

- Drive Encryption
- Credential Manager
- Password Manager
- Absolute Data Protect (Windows 8 only)^{3, 7}
- Computrace (Windows 7 only)⁸
- Face Recognition⁵
- One Step Logon
- SpareKey⁴

Device Access Manager with Just In Time Authentication Embedded Security (Windows 7 only) Privacy Manager (Windows 7 only) Microsoft Security Essentials (Windows 7 only)⁵ DigitalPass (Windows 7 only) Central Management capable⁶

Optional

HP Combo Lock

⁵ Opt-in and Internet connection required for updates



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.

Features

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.

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.

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

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 Softpag Download Manager (available at no charge as a download from the web)

POWER

Power Supply

External HP 45W Slim Smart AC Adapter Power cord included is 5.91-foot (1.8 meter).

Primary Battery

HP 6-cell polymer long life (44WHr)

Battery Life

HP 6-cell polymer long life battery (44WHr)

Up to 8 hours and 30 minutes (with Windows 7)*
Up to 8 hours and 15 minutes (with Windows 8)**

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



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.

Features

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
- EPEAT Gold where HP registers commercial desktop products. See http://www.epeat.net for registration status in your country US Federal Energy Management Program (FEMP)

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
USB 3.0 Charging – One

Digital Media Slots

Micro-SIM; Micro SD Media Reader Slot - supports SD, SDHC, SDXC



Features

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

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



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Nominal Operating 110/220 V

Requirements (AC Power) Voltage

Average Operating Power 10.2 W

Max Operating Power < 45 W

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

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

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

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

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

Shock Operating 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 Yes
CSA Yes
FCC Compliance Yes

ENERGY STAR® Select models*

EPEAT Gold**
ICES Yes
Australia / Yes

NZ A-Tick Compliance

CCC Yes **Japan VCCI Compliance** Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes GOST Yes

Saudi Arabian Compliance Yes

(ICCP)

SABS Yes UKRSERTCOMPUTER Yes



Technical Specifications

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

DISPLAYS

11.6-inch LED HD (1366 x 768) **Active Area** 9.88 x 5.67 in (25.61 x 14.40 cm) **Dimensions** (W x H) 11.53 x 6.49 in (29.3 x 16.5 cm)

Diagonal Size 11.6 in (29.46 cm)
Contrast Ratio 300:1 (typical)

Refresh Rate 60 Hz

Brightness 400 nit (typical)

Pixel ResolutionFormat1366 x 768ConfigurationRGB Stripe

Backlight LED

Viewing Angle 40/40/15/30 (Left/Right/Down/Up) (typical)

STORAGE AND DRIVES

Internal Storage

128 GB mSATA Solid State Drive Weight

Drive

Drive Weight 10 Grams **Capacity** 128 GB

 Height
 0.147 in (3.75 mm)

 Width
 1.18 in (29.85 mm)

 Interface
 SATA 3 (6 Gb/s)

Performance Maximum Sequential Maximum Sequential Write

Read

Up to 450 MB/s Up to 260 MB/s

Logical Blocks 250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [case temp] **Features** ATA Security; ATA-8; SATA 3.0; DIPM



^{*} 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.

Technical Specifications

256 GB mSATA Solid State Drive Weight Up to 10 Grams

Drive

Capacity 128 GB

Height Up to 0.191 in (Up to 4.85 mm)

 Width
 1.18 in (29.85 mm)

 Interface
 SATA 3 (6 Gb/s)

Performance Maximum Sequential Maximum Sequential Write

Read

Up to 490 MB/s Up to 250 MB/s

Logical Blocks 500,118,192

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

Features ATA Security; ATA-8, SATA 3.0; DIPM; TRIM

NETWORKING/COMMUNICATIONS

Intel® 82579LM Gigabit Ethernet Features

Network Connection

t Features 10 Mbit/s operation (10BASE-T; IEEE 802.3; IEEE 802.3 clauses 13-14) 100 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbti/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023. Clauses 40)

Auto-Negotiation (Automatic Speed Selection)

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

Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q 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 ACPI compliant - multiple power modes

 Management
 Energy Detect Low Power Mode(Green Ethernet)

 Performance
 TCP/IP/UDP Checksum Offload (configurable)

Features 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



Technical Specifications

Interface PCI Express 1.1 x1 to fully support ASPM LOs/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 ClassO-Cell), 1900MHz

(Band Class 1-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), 5.76Mbps (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 20 mA

Not Connected

USB selective suspend **Power Management**

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 q

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) (from TIA/EIA/IS-98-D)

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

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

Humidity, Non-operating 95% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)



Technical Specifications

Configuration Utilities

LED Activity

HP Connection Manager

LED Off - Radio Off;

Solid LED On - Radio On

HP hs2350 HSPA+ Mobile Technology/Operating

Broadband Module

Bands

GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS), 1900MHz

(PCS)

UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900Mhz (UTRA FDD Band II), 900Mhz(UTRA FDD Band VIII), 850 MHz (UTRA FDD Band V)

Wireless Protocol

Standards

GSM/GPRS/EDGE: Class B, Multi-slot class 10 operation, coding schemes CS1 -

CS4 and MSC1 - MSC9.

UMTS/WCDMA: Release 99 and Release 7

Advanced Receiver Type 3i

Wireless Parametric

Standards

Complies with 3GPP specifications

Maximum Data Rates

GPS

UMTS (HSPA) - 21 Mbps (Download), 5.76Mbps (Upload)

Standalone, A-GPS (Internet- and Network assisted)

GPS Bands 1575.42 MHz (± 1.023 MHz)

Maximum Output Power

GSM/EDGE

GSM850 & GSM900 bands

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) 2000mA (peak); 600mA (average)

Maximum Power

Consumption

Power Consumption,

Sleep Mode

5 mA

Power Management

USB selective suspend

Integrated notebook wireless button

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

display enclosure

Form Factor PCI-Express MiniCard, USB 2.0 interface

Weight < 12 g

Dimensions (Length x

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

Width x Thickness)

Voltage, Operating 3.3v +/- 9%

Temperature, Operating 14° to 149° F (-10° to 65° C) (full RF performance)

14° to 167° F (-10° to 75° C) (reduced RF performance)

Technical Specifications

Temperature, Non- -22° to 185° F (-30° to 85° C)

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

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

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

Intel Centrino Advanced-N Wireless LAN Standards IEEE

6205 (2x2)

IEEE 802.11a IEEE 802.11b

IEEE 802.11g IEEE 802.11n

Interoperability Wi-Fi certified

Cisco Compatible Extensions Program compliant with Microsoft Windows 7, Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)

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

Security¹ 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)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between 2.4GHz band Access Points

Output Power (for CCK and 17 dBm max

OFDM)2

Technical Specifications

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 Sensitivity⁴ 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
Wi-Fi certified

Interoperability Wi-Fi certified

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- 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.



Technical Specifications

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** 8 kHz - 48kHz

Rate(s)

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 **Dimensions** (H x W x D) 9.60 x 4.95 x 2.24 cm

Input Efficiency 87% min at 115 VAC

90 to 265 VAC

Input frequency range 47 to 63 Hz

Input AC current 1.4 A at 90 VAC and maximum load

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

Connector3 pin/grounded, mates with interchangeable cordsEnvironmental DesignOperating32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 121° F (-20° to 85° C)

temperature

Altitude 0 to 16,405 ft (0 to 5,000 m)

Humidity 0% to 95% Storage Humidity 0% to 95%

EMI and Safety Certifications

Input

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

Dimensions (H x W x L) 1.11 x 28.1 x 10.3 cm

Weight (max) 3.10g

Cells/Type 6-cell Polymer

Energy Voltage 11.1V

Amp-hour capacity 4.0Ah Watt-hour capacity 44Wh

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

Operating (Discharging) 14° to 122° F(-10° to 50° C)

Non-operating -4° to 122° F (-20° to 50° C)

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

Mode

System ON 3-5 hours

Fuel Gauge LED No

Optional Travel Battery

Available

No

ENVIRONMENTAL



Technical Specifications

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:

- 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)

Normal Operation
Sleep
Off

115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
8.84 W	9.13 W	8.20 W
0.78 W	0.9 W	0.78 W
0.39 W	0.48 W	0.38 W

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	30 BTU/hr	31 BTU/hr	28 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
Off	1 BTU/hr	2 BTU/hr	1 BTU/hr

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

Technical Specifications

Declared Noise Emissions		
(in accordance with	Sound Power	Sound Pressure
ISO 7779 and ISO 9296)	(LWAd, bels)	(LpAm, decibels)
Typically Configured - Idle	3.2	25
Fixed Disk - Random writes	3.1	25

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:

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 gold level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 30.6% post-consumer recycled plastic (by wt.)
- This product is 90.2% recycle-able when properly disposed of at end of life.

Packaging Materials External: PAPER/Corrugated 340 q

<edit list of features as required>

Technical Specifications

Internal: PLASTIC/EPE (Expanded Polyethylene) 80 g

PLASTIC/Polyethylene low density 25 g
PLASTIC/PET 500 g
OTHER/OTHER 1450 g

The plastic packaging material contains at least 30 % recycled content.

The corrugated paper packaging materials contains at least 30% 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)

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.



Technical Specifications

 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/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

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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K_Certificate.pdf

and

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



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

Memory :	HP 2GB DDR3 1600 PC3-12800 SODIMM	H2P63AA#xxx
H	HP 4GB DDR3 1600 PC3-12800 SODIMM	H2P64AA#xxx
H	HP 8GB DDR3 1600 PC3-12800 SODIMM	H2P65AA#xxx
Cases H	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
H	HP Essential Backpack (up to 15.6")	H1D24AA
H	HP Essential Messenger Case (up to 17.3")	H1D25AA
H	HP Deluxe 4 wheel Roller Case (up to 17.3")	XW576AA
H	HP Business Nylon Backpack (up to 17.3")	BP849AA
H	HP Business Nylon Case(up to 15.6")	BP848AA
H	HP BP848 TAA Business Nylon Top Load (up to 15.6")	LU934AA#ABA
H	HP Elite Leather Messenger	AX676AA
H	HP Professional Series Designer Tote (up to 15.6")	AT889AA
H	HP Elite Series Designer Tote (up to 15.6")	AT891AA
H	HP Professional Series Carrying Case (up to 15.6")	H4J90AA
ŀ	HP Professional Series Carrying Case TSA (up to 15.6")	H4J92AA
ŀ	HP Professional Series Backpack (up to 15.6")	H4J93AA
ŀ	HP Professional Leather Case (up to 17.3")	H4J94AA
ŀ	HP Business Slim Top Load (up to 14.1" x .75" thick)	H2T13AA
Docking H	HP Adjustable Dual Monitor Stand	AW664AA#xxx
H	HP Adjustable Display Stand	AW663AA#xxx
H	HP Display and Notebook Stand	AW662AA#xxx
H	HP LCD Monitor Stand	QM196AA
ŀ	HP Dual Hinge Notebook Stand	AW661AA#xxx
ŀ	HP USB 2.0 Port Replicator	H1L07AA#xxx
ŀ	HP USB 3.0 Port Replicator	H1L08AA#xxx
ŀ	HP UltraSlim Docking Station	B9C87AA#xxx
Input/Output - Mice	HP USB Optical Travel mouse	RH304AA
H	HP Wireless Mobile Mouse	H2L63AA
H	HP USB Essential Keyboard/Mouse	H2S75AA
H	HP X6000 Mouse	H2L62AA#XXX
H	HP 3-button USB Laser Mouse	H4B81AA
H	HP X4000b Bluetooth Mouse	H3T50AA#xxx
Input/Output - Keyboard +	HP Stylish Wireless KB/Mouse	H4B79AA
H	HP Stylish USB KB/Mouse	H4B80AA
H	HP Wireless Mini Keyboard	A3X55AA#xxx



Options and Accessories (sold se	narately ar	nd availability n	nav varv	hy country)
options and necessories (sold se	.paratety ai	iria avaitabitity i	idy vai y	by country,

options and Accessor	ries (sold separately and availability may vary by country)	
	HP Slim BT Keyboard US	H4Q44AA#ABA
Input/Output - Other	HP USB Ethernet Adapter	XZ613AA#ABA
	USB Graphics Adapter	NL571AT
	USB Graphics Adapter (DBU PL)	NL571AA
Input/Output - Projector	HP Notebook Projection Companion	LQ552AA#xxx
Adapters	90W Slim Combo Adapter	H4A41AA#xxx
	90W w/USB Universal Adapter	H4A43AA#ABA
	90W Smart AC/Auto/Air Combo Adapter	AJ652AA#xxx
	90W Smart Auto/Truck Adapter	ED493AA
	HP Smart 65W Travel AC Adapter	AU155AA#xxx
	HP 65W Slim Adapter	AX727AA#xxx
	65W Smart AC Adapter	ED494AA#xxx
	90W Smart AC Adapter	ED495AA#xxx
	90W Slim Adapter	BT796AA#xxx
Storage - External Storage	HP Mobile USB DVDRW Non-LS	A2U57AA
Platform Battery	HP OD06XL Long Life Notebook Battery	H6L25AA
Health and Education	20 Notebook Managed Charging Cart	QL489AA#xxx
	20 Notebook Charging Cart	QL488AA
	30 Notebook Managed Charging Cart	QL490AA
	30 Notebook Charging Cart	H4F31AA#ABA
	HP Presentation Station Projector Shelf	QN034AA
	HP Presentation Station 1000	QL815AA
	HP Pocket Whiteboard (3 year warranty)	A0X37AA#xxx
Security	HP Docking Station Cable Lock	AU656AA#xxx
	HP UltraSlim Keyed Cable Lock	H4D73AA

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