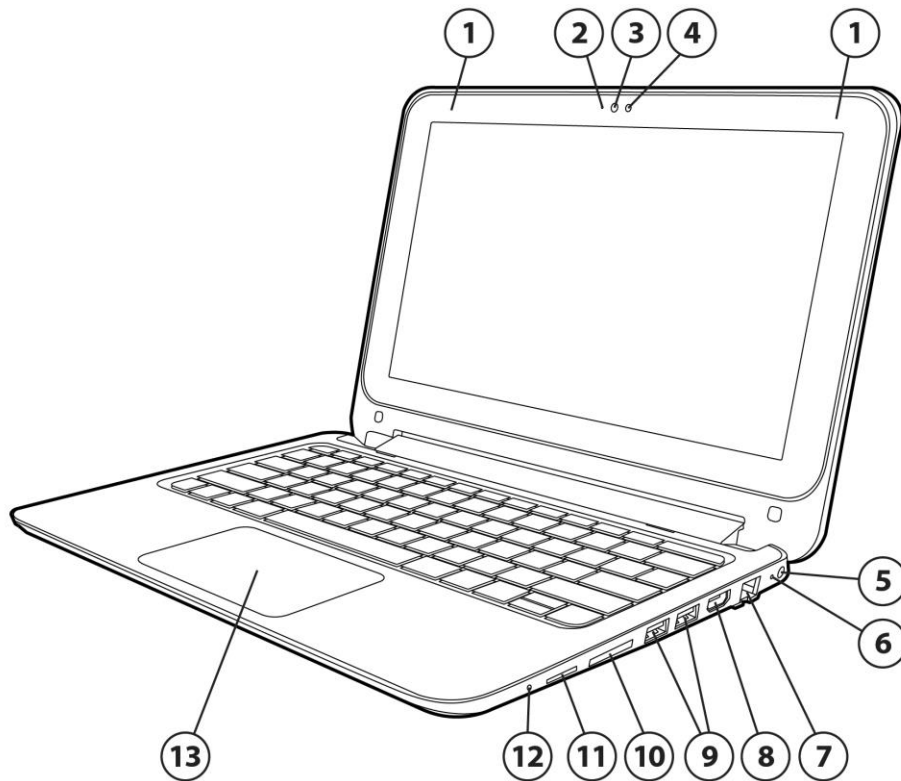


# QuickSpecs

HP x360 310 G1 PC

## Overview

### HP x360 310 G1 PC



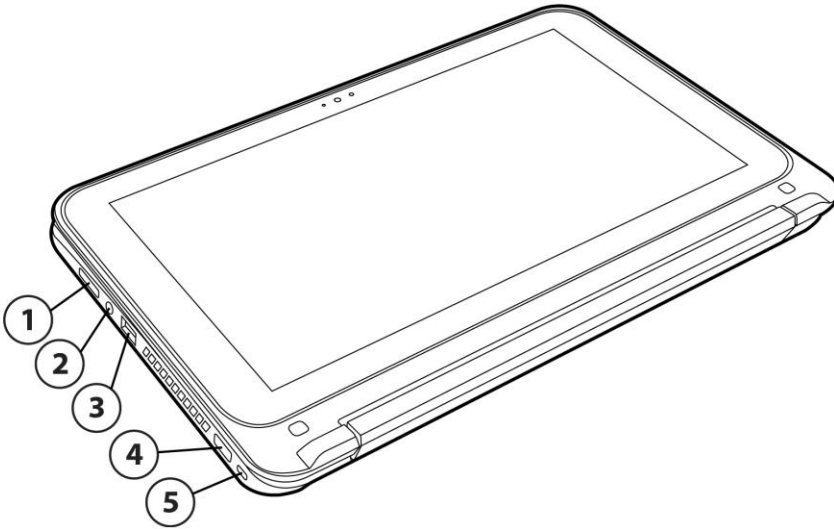
#### Front, Right

- |                             |   |
|-----------------------------|---|
| 1. WLAN antennas            | 8. HDMI v1.4 port                                       |
| 2. Microphone               | 9. USB 3.0 port (closest to HDMI port) and USB 2.0 port |
| 3. HD Webcam                | 10. Media card reader                                   |
| 4. Webcam LED               | 11. WWAN SIM tray (WWAN configs only)                   |
| 5. Power connector          | 12. HDD activity LED                                    |
| 6. AC Adapter/battery light | 13. Clickpad  |
| 7. Ethernet port (RJ-45)    |   |

# QuickSpecs

HP x360 310 G1 PC

## Overview



1. Volume + / - button
2. Combo headphone / mic jack
3. USB 2.0 port

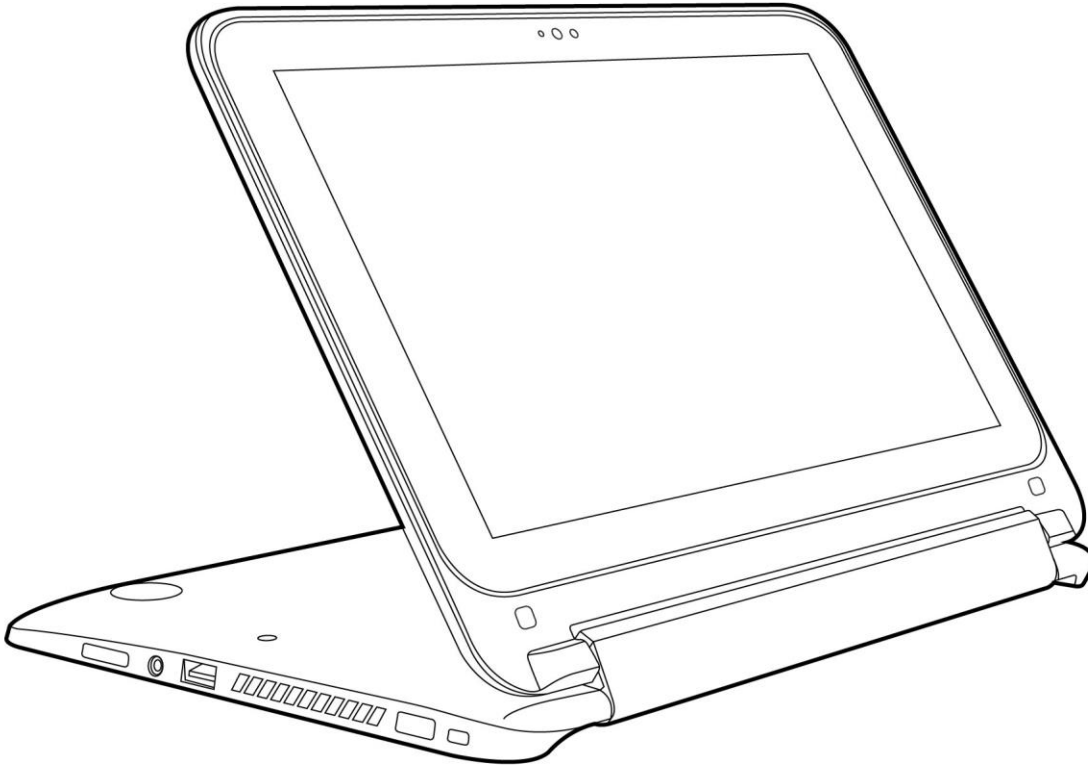
### Tablet

4. Power button
5. Security lock slot

# QuickSpecs

HP x360 310 G1 PC

## Overview



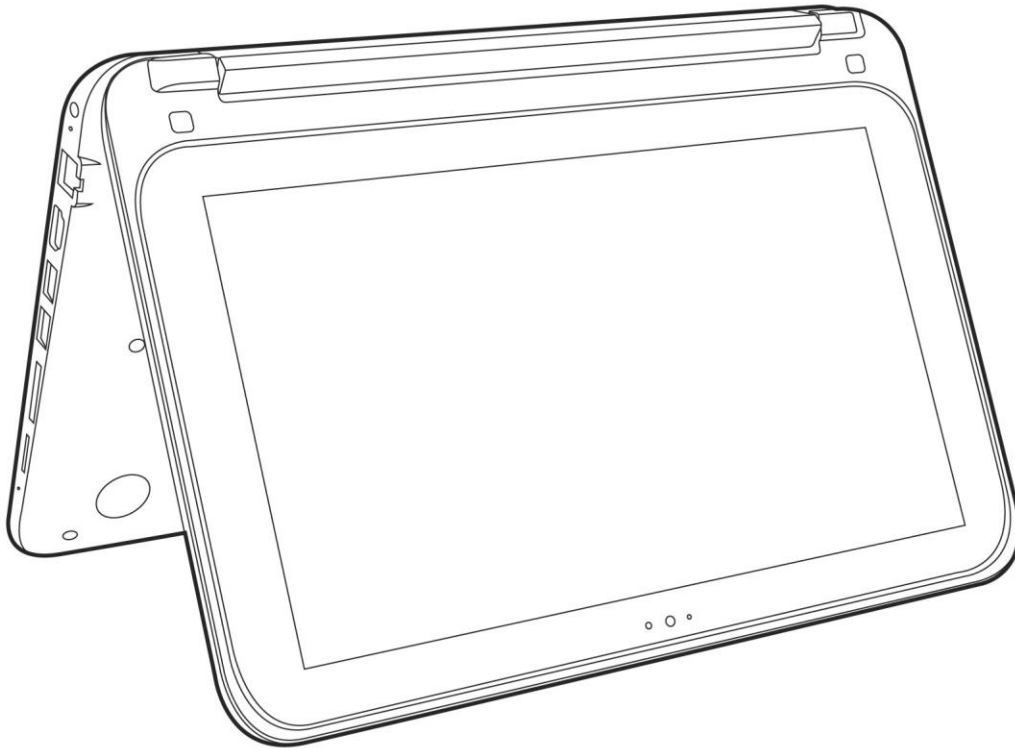
Open View



# QuickSpecs

HP x360 310 G1 PC

## Overview



Up View

# QuickSpecs

## HP x360 310 G1 PC

### Overview

#### At A Glance

- 360 Convertible PC combines a super sleek design with key business features and the ability to seamlessly transition between notebook or tablet with one device.
- Windows 8.1 Pro 64 or Windows 8.1 SST 64
- Intel® Pentium™ N3520 processor or Intel Celeron™ N2820 processor
- Integrated Intel HD Graphics
- 11.6" diagonal HD WLED (1366 x 768) Touchscreen
- Choice of 5400 rpm hard drive (up to 750 GB) or 500 GB Solid State Hybrid drive
- 0.86 inch (21.9 mm) thin profile
- Weight of clamshell starting at 3.08 lbs (1.4 kg)
- HP Beats Audio with integrated stereo speakers, integrated microphone, front facing HP HD Webcam
- 97% scale backlit island-style keyboard
- Easily hot dock with one of the optional HP port replicators
- 2-cell (29 WHr) prismatic battery
- Clickpad w/ multi-touch gesture support image sensor
- Security features including a security lock slot and TPM Embedded Security Chip
- Wireless connectivity:
  - HP hs3210 HSPA+ Mobile Broadband Module
  - Ralink 802.11 b/g/n (1x1) Bluetooth® 4.0 Combo
  - Qualcomm 802.11b/g/n (1x1) and Bluetooth 4.0 Combo
  - Realtek 802.11 b/g/n (1x1)
  - Atheros 802.11 b/g/n (1x1)
- Standard commercial 1 year warranty with upgrade available with HP Care Pack

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



### Features

#### PRODUCT NAME

HP x360 310 G1 PC

#### OPERATING SYSTEM

**Preinstalled** Windows 8.1 Pro 64\*  
Windows 8.1 SST 64\*  
Office Trial 2013\*\*

\* Not all features are available in all editions of Windows 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See <http://www.microsoft.com/>

\*\*Select Windows SST systems include Office Home & Student 2013 with full versions of Word, Excel, PowerPoint and One Note and is not available in all regions. Office Home & Student 2013 edition software may not be used for commercial, non-profit or revenue-generating activities.

#### PROCESSOR\*

Intel® Pentium® N3520 (2.17 GHz, 2 MB L2 cache, 4 cores)\*  
Intel® Celeron® N2820 (1.86 GHz, 1 MB L2 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.

#### CHIPSET

Integrated SoC PCH

#### GRAPHICS

Integrated:  
Intel HD Graphics

- Supports HD playback, streaming, and recording @ 720p 30fps

#### DISPLAY

**Internal**  
11.6" diagonal HD\* WLED (1366 x 768) SVA Touchscreen

- Standard viewing angle flat panel (3.6 mm)
- Support LVDS (co-layout with eDP1.3+PSR)
- Touchscreen, Multi-touch enabled

**External**  
Up to 32-bit per pixel color depth

**VGA**  
Port supports resolutions up to 1920x1200 external resolution @ 60Hz

**HDMI\***  
1.4 port supports up to 1080p, 1920x1080 at 60Hz

\* HD content required to view HD images.  
**NOTE:** Resolutions are dependent upon monitor capability, and resolution and color depth settings.

#### STORAGE AND DRIVES



# QuickSpecs

## HP x360 310 G1 PC

### Features

#### Hard Drives

320/500/750 GB 5400 rpm SMART SATA II (7 mm, 7.2 mm for the 750 GB drive)

#### Hybrid Drives

500 GB SATA Solid State Hybrid Drive

**NOTE:** For hard drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 8.1) of system disk is reserved for the system recovery software.

### MEMORY

DDR3L SDRAM 1600 MHz downgraded to 1333 MHz (Pentium) or 1066MHz (Celeron)

1 SODIMM slot On-board

Standard memory up to 8192 MB

### 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 (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

#### Broadband Wireless (WWAN)

HP hs3210 HSPA+ Mobile Broadband Module\*

#### Wireless LAN (WLAN)

Ralink 802.11 b/g/n (1x1) Bluetooth® 4.0 Combo\*

Qualcomm 802.11b/g/n (1x1) and Bluetooth 4.0 Combo\*

Realtek 802.11 b/g/n (1x1)\*

Atheros 802.11 b/g/n (1x1)\*

\* Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

### AUDIO/MULTIMEDIA

#### Audio

HP Beats Audio™

Dual speakers (front facing)

Single digital microphone with echo cancellation, noise suppression

Formats: MP3, AAC, AAC+, EAAC+ OGG, MIDI

Headphone/Line-out (Beats supported) and Mic-in (combo)

#### Webcams (Front)

Integrated HP HD\* Webcam\*\*

- HD\* format
- 720p
- 2.0MP
- 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

\*HD content required to view HD images.

\*\* Internet access required.



### Features

#### KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

##### Keyboard

97% scale backlit island-style keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys. US and International key layouts are available.

##### Pointing Devices

Clickpad with image sensor

Touchpad Requirements: Multi-touch gestures enabled, taps enabled as default, and multi-touch capacitive panel

##### Buttons

Power, Volume Up, Volume Down, Windows Start/Home

##### Sensors

Sensor Hub (Accelerometer + Gyroscope + e-Compass), supports Proximity Sensor for SAR certification (WWAN option)

#### SOFTWARE AND SECURITY

##### Preinstalled Software with Windows Operating System

##### Browser and Toolbars

Internet Explorer 10

##### UI Enhancements

HP Utility Center

Baidu Chinese IME (China only)

##### Productivity

Buy Office

QuickBooks 30-day Trial (NA only)

7-Zip

##### E-readers and Document Viewers

Kindle

##### Windows Essentials

MovieMaker

Photo Gallery

SkyDrive

##### Photos and Videos

Cyberlink YouCam DE (Windows 8.1 only)

SnapFish URLAdobe® Shockwave Player

HP Connected Photo powered by Snapfish

##### Music – HP

HP Connected Music powered by Meridian\* (includes UMG for Arabic and India) (NA only)

Fingertapps Instruments

\* Availability of features varies by country. Streaming services may require a paid subscription. May not be compatible with all music files. Not compatible with DRM tracks. Internet access is required and not included.

##### Movies

VUDU Movies (NA only)

Netflix (NA and LA only)

**Comment [SH1]:** Software list is from x2 4 will need software list for this product.



### Features

#### Home AV integration / Home Networking

Intel WiDi\*

\* Integrated Intel Wi-Di feature is available on select configurations only (not included on the Ralink WLAN) and requires separately purchased projector, tv or computer monitor with an integrated or external Wi-Di receiver. External Wi-Di receivers connect to the projector, tv or computer monitor via a standard HDMI cable, also sold separately.

#### Multimedia Codecs

Dolby

MPEG2

#### Audio Post processing

Beats Audio™

#### Games - Microsoft

Solitaire Collection (NA only)

#### Games - HP

Classic Board Games

ArcSoft Family Paint

#### Communication

Skype

Pinger (NA and LA only)

#### App Stores and Content Purchasing

eBay (not available in China)

BestBuy.com (NA only)

Costco.com (NA only)

Amazon (NA only)

#### Cloud Storage

Box.net\*

HP File Viewer/Connected Drive (US only)

#### HP Utilities and Support

HP Documentation

Getting Started with Windows 8

HP Registration (Windows 8/8.1 only)

HP Recovery Manager

HP Support Assistant\*\*

HP ePrint Driver\*\*\*

HP PeakShift (Japan only)

\*50 GB Box account available on new 2013 HP Business Desktops, Notebooks, and Tablets. Requires Box registration. Offer available to new Box users only. Offer subject to change without notice. Box app requires Windows 8 or 8.1

\*\* Requires Windows and internet access.

\*\*\* Requires an Internet connection to HP web-enabled printer and HP ePrint account registration for details, see

[www.hpconnected.com](http://www.hpconnected.com).

#### Standard

McAfee LiveSafe subscription (30 Day Subscription)\*

HP SimplePass

Security Lock Slot

TPM Embedded Security Chip

\* Internet access required. First 30 days included. Subscription required for live updates afterwards.

# QuickSpecs

HP x360 310 G1 PC

## Features

### Optional Security Lock

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

## POWER

### Power Supply

External HP 45W Slim Smart AC Adapter\*  
External 65W EM Smart AC Adapter (PRC, India only)  
Power cord included is 3.3-foot (1.0 meter)  
\*AC adapter uses a 90 degree 4.5mm DC plug

### Primary Battery

HP 2-cell prismatic (29 WHr)

### Battery Life

HP 2-cell prismatic (29 WHr) Up to TBD Hours

### System Standby Time

Up to TBD hours

## ENVIRONMENTAL

Low halogen\*  
RFID support  
WEEE compliant (Waste Electric and Electronic Equipment)  
RoHS 2 Compliant  
MSH/OBL compliant  
E-Standby compliant  
DLNA certification  
Anti-theft\*\*  
California Battery Charger Energy Efficiency compliant  
Skype Acceptance Test  
China CEL label

\* External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

\* Intel AT security requires a separately purchased Absolute Computrace service subscription and must be activated and configured. Check with Absolute for availability in your country. Intel and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom. See <http://www.intel.com/technology/anti-theft/>

**NOTE:** 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.

## WEIGHTS & DIMENSIONS

### Weight

Starting at 3.08 lbs (1.4 kg) (weight will vary by configuration)

### Dimensions (w x d x h)

12.13 x 8.47 x 0.86 in (308 x 215.1 x 21.9 mm)

**NOTE:** Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.

## PORTS/SLOTS



# QuickSpecs

HP x360 310 G1 PC

## Features

### Ports

USB 3.0 – One (right)  
USB 2.0 – Two (one right, one left)  
HDMI v1.4 – One  
VGA - One  
Stereo headphone-out/mic-in combo jack – One  
RJ-45 (Ethernet) - One  
AC adapter Smart Pin plug (4.5mm barrel) – One

### Expansion Slots

HP Multi-Format Digital Media Card Reader  
Supports SD/SDHC/SDXC

## SERVICE AND SUPPORT

HP Services offers a 1 year standard commercial warranty; 1 year limited warranty on primary battery. On-site service and optional\* HP Care Pack Services\*\* are available to extend your protection beyond the standard warranty. For more details visit: <http://www.hp.com/go/cpc>.

\*Sold separately or as an optional feature.

\*\* Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. Consult the HP Customer Support Center for details. <http://www.hp.com/go/cpc>.



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

#### SYSTEM UNIT

<b>Stand-Alone Power Requirements (AC Power)</b>	<b>Nominal Operating Voltage</b>	19.5 V
	<b>Average Operating Power</b>	TBD W
	<b>Max Operating Power</b>	< 45 W
<b>Temperature</b>	<b>Operating</b>	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
	<b>Non-operating</b>	-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	<b>Operating</b>	10% to 90%, non-condensing
	<b>Non-operating</b>	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
<b>Shock</b>	<b>Operating</b>	40 G, 2 ms, half-sine
	<b>Non-operating</b>	200 G, 2 ms, half-sine
<b>Random Vibration</b>	<b>Operating</b>	0.75 grms
	<b>Non-operating</b>	1.50 grms
<b>Altitude (unpressurized)</b>	<b>Operating</b>	-50 to 10,000 ft (-15.24 to 3,048 m)
	<b>Non-operating</b>	-50 to 40,000 ft (-15.24 to 12,192 m)
<b>Planned Industry Standard Certifications</b>	<b>UL</b>	Yes
	<b>CSA</b>	Yes
	<b>FCC Compliance</b>	Yes
	<b>ENERGY STAR®</b>	TBD models*
	<b>EPEAT</b>	TBD**
	<b>ICES</b>	Yes
	<b>Australia / NZ A-Tick Compliance</b>	Yes
	<b>CCC</b>	Yes
	<b>Japan VCCI Compliance</b>	Yes
	<b>KC</b>	Yes
	<b>BSMI</b>	Yes
	<b>CE Marking Compliance</b>	Yes
	<b>BNCI or BELUS</b>	Yes
	<b>CIT</b>	Yes
	<b>GOST</b>	Yes
	<b>Saudi Arabian Compliance (ICCP)</b>	Yes
	<b>SABS</b>	Yes
	<b>UKRSERTCOMPUTER</b>	Yes

\* Configurations of the HP x360 310 G1 PC that are ENERGY STAR qualified are identified as HP x360 310 G1 PC on HP websites and on [www.energystar.gov](http://www.energystar.gov).

\*\* EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

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



# QuickSpecs

HP x360 310 G1 PC

## Technical Specifications

### DISPLAYS

11.6-inch diagonal WLED 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	200 nit (typical)	
	Pixel Resolution	Format	1366 x 768
		Configuration	RGB Stripe
	Backlight	LED	
	Viewing Angle	40/40/15/30 (Left/Right/Down/Up) (typical)	

### STORAGE AND DRIVES **I don't see the 500GB hybrid drive here**

750 GB* 5400 rpm SATA Hard Drive	Drive Weight	0.22 lb (101 g)	
	Capacity	750 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	Synchronous (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track	3 ms
		Average	13 ms
		Maximum	24 ms
	Rotational Speed	5400 rpm	
500 GB* 5400 rpm SATA Hard Drive	Logical Blocks	1,465,149,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	

500 GB* 5400 rpm SATA Hard Drive	Drive Weight	0.22 lb (101 g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	Synchronous (maximum)	150 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track	3 ms
		Average	13 ms
		Maximum	24 ms
	Rotational Speed	5400 rpm	
500 GB* 5400 rpm SATA Hard Drive	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

	Features	ATA Security
320 GB* 5400 rpm SATA Hard Drive	Drive Weight	0.22 lb (101 g)
	Capacity	320 GB
	Height	0.37 in (9.5 mm)
	Width	2.75 in (70 mm)
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ
	Transfer Rate	<b>Synchronous</b> (maximum) 150 MB/s (Drive Capability)
	Seek Time	<b>Single Track</b> 3 ms
	(typical reads, including settling)	<b>Average</b> 13 ms
		<b>Maximum</b> 24 ms
	Rotational Speed	5400 rpm
	Logical Blocks	625,142,448
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
	Features	ATA Security

\* For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 8.1) of system disk is reserved for the system recovery software.

### NETWORKING/COMMUNICATIONS

#### Networking

Integrated Realtek 10/100/1000 NIC (/1000 to be confirmed)	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
		100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
		1000 Mbit/s operation (100BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 21-30) ( Support in RTL8161FH-CG only)
		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)
		Power Management
		ACPI compliant - multiple power modes
	Performance Features	Situation-sensitive features reduce power consumption
		Advanced link down power saving for reducing link down power consumption
		TCP/IP/UDP Checksum Offload (configurable)
	Manageability	Large send offload and Giant send offload
		Receiving Side Scaling
		Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)
	Interface	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
		PCI Express 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ



# QuickSpecs

HP x360 310 G1 PC

## Technical Specifications

**NIC Device Driver Name** Realtek PCIe FE Ethernet Family Controller

### Communications

**HP hs3210 HSPA+ Mobile Broadband Module\***

<b>Technology/Operating Bands</b>	CDMA/1xRTT/EvDO: 800MHz (Cell), 1900MHz (PCS) 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) LTE: 700 MHz (Verizon, Band XIII)
<b>Mobile Operator</b>	Verizon (US only)
<b>Wireless Protocol Standards</b>	GSM/GPRS/EDGE: Class B, Multi-slot class 10 operation, coding schemes CS1 - CS4 and MSC1 - MSC9. CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-856, IS-2000 UMTS/WCDMA: Release 99 and Release 7 LTE: Power Class III as per 3GPP TS 36.101
<b>Wireless Parametric Standards</b>	Complies with 3GPP specifications Release 8 for LTE
<b>Maximum Data Rates</b>	EvDO (Revision A) - 3.1 Mbps (Download), 1.8 Mbps (Upload) WCDMA (DC-HSPA+) - 42Mbps (Download) LTE (Category 3) - 100 Mbps (Download ), 50Mbps (Upload)
<b>GPS</b>	Standalone, Assisted, XTRA
<b>GPS Bands</b>	1575.42 MHz ( $\pm 1.023$ MHz)
<b>Maximum Output Power</b>	GSM/GPRS/EDGE: 32dBm (+/-1) WCDMA: 24dBm (+0.7/-2.3) LTE: +23 dBm (+2.7 dBm/-1.7 dBm) 1xRTT/EvDO: +24 dBm (+0.5 dBm/-1.5 dBm)
<b>Maximum Power Consumption</b>	2700mA (peak)
<b>Power Consumption, Sleep Mode</b>	10 mA
<b>Power Management</b>	USB selective suspend Integrated notebook wireless button
<b>Antenna Type</b>	Dual high efficiency 6 band antennae with spatial diversity, mounted in the display enclosure
<b>Form Factor</b>	PCI-Express MiniCard, USB 2.0 interface
<b>Weight</b>	< 10 g
<b>Dimensions</b> (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
<b>Voltage, Operating</b>	3.3v +/- 9%
<b>Temperature, Operating</b> (from TIA/EIA/IS-98-D)	-4° to 149° F (-20° to 65° C)
<b>Temperature, Non-operating, 96 hours</b> (from MIL-STD 202 Method 108)	-40° to 185° F (-40° to 85° C)
<b>Humidity, Non-operating</b>	85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
<b>LED Activity</b>	LED Off - Radio Off;

**Comment [SH2]:** Will need to verify these specs.



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

Solid LED On - Radio On

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

#### Atheros 802.11b/g/n WiFi Adapter\*, \*\*

<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Win7, (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
<b>Frequency Band</b>	2.402 - 2.482 GHz
<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n150Mbps for MCS7
<b>Frequency Support</b>	20 MHz: 2.4 GHz bands
<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 5) with Microsoft Windows 7 only.
<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power<sup>2</sup></b>	13.5 dBm, minimum
<b>Power Consumption</b>	Idle associated: 250 mW avg (CLKREQ enabled) Idle unassociated: 100 mW avg Transmit/Receive channel: 2.0 / 1.6 W
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode
<b>Receiver Sensitivity<sup>3</sup></b>	11b:-88dBm@11Mbps, 11g:-74 dBm@54Mbps, 11n:-70dBm@72.Mbps.
<b>Antenna type</b>	High efficiency dual antenna with spatial diversity, usually mounted in the display enclosure
<b>Form Factor</b>	PCI-Express Half-MiniCard
<b>Weight</b>	4 g
<b>Dimensions</b>	3.3 x 26.65 x 29.85 mm
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	Operating -10° to 70° C





# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

<b>Humidity</b>	Non-operating	-40° to 80° C
	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	Amber LED on-Radio OFF; White LED on-Radio ON	
Check latest software/driver release for updates on supported security features.		
Maximum output power may vary by country according to local regulations.		
Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).		

**NOTE:** WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista and Win7.

\* Wireless access point and internet service required. Availability of public wireless access points limited.

\*\* Sold separately or as an optional add-on feature.

<b>Qualcomm 802.11b/g/n Bluetooth 4.0 Combo Card*</b>	<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows7 (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.402 - 2.482 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 150Mbps for MCS7
	<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST. WAPI  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 5) with Microsoft Windows Vista and XP only.
	<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.
	<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
	<b>Output Power (for CCK)<sup>2</sup></b>	13.5dBm , minimum
	<b>Power Consumption</b>	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max)



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

<b>Power Management</b>	Receive: 2.0 W (max) ACPI compliant power management 802.11 compliant power saving mode	
<b>Receiver Sensitivity</b> <sup>3</sup>	11b:-88dBm@11Mbps, 11g:-74 dBm@54Mbps, 11n:-70dBm@72.Mbps.	
<b>Antenna type</b>	High efficiency dual antenna with spatial diversity, mounted in the display enclosure	
<b>Form Factor</b>	PCI-Express Half-MiniCard v1.2	
<b>Weight</b>	6 g	
<b>Dimensions</b>	3.3 x 26.65 x 29.85 mm	
<b>Operating Voltage</b>	3.3v +/- 10%	
<b>Temperature</b>	Operating	14° to 149° F (-10° to 65° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Off - Radio OFF; Solid LED On - RadioON	

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

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

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

**NOTE:** WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista and Windows 7.

#### Bluetooth Specification

V4.0 High Speed, V2.1+EDR, backwards compatible with V1.1, 1.2 and 2.0

<b>Number of Available Channels</b>	79 (1 MHz) available channels
<b>Data Rates and Throughput</b>	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
<b>Transmit Power</b>	-6 dBm to 4 dBm (Bluetooth Class II)
<b>Receiver Sensitivity</b>	Better than -80 dBm at 0.1 % raw bit error rate
<b>Power Consumption</b>	Peak (Tx) 330 mW Peak (Rx) 230 mW Sleep <17 mW
<b>Antenna</b>	Internally integrated within module
<b>Range</b>	Up to 33 ft (10 m)
<b>Electrical Interface</b>	USB 2.0 compliant Microsoft Windows Plug and Play compliant
<b>Bluetooth Software Supported</b>	Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software
<b>Link Topology</b>	Point to Point, Multipoint Pico Nets up to 7 slaves
<b>Security</b>	Full support of Bluetooth Security Provisions



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
<b>Certifications</b>	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
<b>Bluetooth Profiles Supported</b>	Generic Access Profile (GAP) Service Discovery Application Profile (SDAP) Serial Port Profile (SPP) Dial-Up Networking Profile (DUN) Generic Object Exchange Profile (GOEP) Object Push Profile (OPP) File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) Personal Area Networking Profile (PAN) Human Interface Device Profile (HID) Generic Audio/Video Distribution Profile (GAVDP) Advanced Audio/Video Distribution Profile (A2DP) FAX Profile (FAX) Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP) Basic Printing Profile (BPP) VDP (Video Distribution Profile) AVRCP (Audio Video Remote Control Profile)

\* Wireless access point and internet service required. Availability of public wireless access points limited.

\*\* Sold separately or as an optional add-on feature.

<b>Realtek RTL8188EE 802.11 b/g/n (1x1)</b>	<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	<b>Interoperability</b>	Wi-Fi certified
	<b>Frequency Band</b>	2.402 - 2.482 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: card will support rates for NSS=1 for RX and TX for 20 MHz channels. Short and long guard interval will be supported.
	<b>Modulation</b>	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM
	<b>Security<sup>1</sup></b>	IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication types WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification IEEE 802.11i Cisco Certified Extensions, all versions through V5 WAPI
	<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

Roaming	IEEE 802.11 compliant roaming between access points	
Output <sup>2</sup>	13.5 dBm, nominal	
Power Consumption	Transmit: 2.0 W (max)	
	Receive: 1.6 W (max)	
	Associated to Access Point, Idle: 250 mW nominal	
	Wireless Button Off: 100 mW nominal	
Power Management	Radio disabled: 75 mW nominal	
	ACPI compliant power management	
Receiver Sensitivity <sup>3</sup>	802.11 compliant power saving mode	
	802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm (11 Mbps)	
	802.11g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps)	
	802.11n:-70dBm (72.2 Mbps)	
Antenna Connections	High efficiency antenna with spatial diversity, mounted in the display enclosure	
Form Factor	PCI-Express Half-MiniCard	
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating	14° to 158° F (-10° to 70° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON	
1. Check latest software/driver release for updates on supported security features.		
2. Maximum output power may vary by country according to local regulations.		
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).		

<b>Ralink RT3290LE 802.11 b/g/n (1x1) Bluetooth 4.0 Combo *, **</b>	<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows7 (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
	<b>Frequency Band</b>	2.402 – 2.482 GHz
	<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: card will support rates for NSS=1 for RX and TX for 20 MHz channels. Short and long guard intervals shall be supported
<b>Modulation</b>	Direct Sequence Spread Spectrum	
	DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM	
<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-	



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

	MSCHAPv2, LEAP, EAP-FAST, WAPI	
	Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 5) with Microsoft Windows Vista and XP only.	
<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.	
<b>Media Access Protocol</b>	CSMA/CA (Collision Avoidance) with ACK	
<b>Network Architecture Models</b>	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points	
<b>Output Power</b> (for CCK) <sup>2</sup>	13.5dBm , minimum	
<b>Power Consumption</b>	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max) Receive: 2.0 W (max)	
<b>Power Management</b>	ACPI compliant power management 802.11 compliant power saving mode	
<b>Receiver Sensitivity</b> <sup>3</sup>	72.2 Mbps: -70 dBm; 54 Mbps: -74 dBm; 11 Mbps: -88 dBm ; 1 Mbps: -95 dBm	
<b>Antenna type</b>	High efficiency dual antenna with spatial diversity, mounted in the display enclosure	
<b>Form Factor</b>	PCI-Express Half-MiniCard	
<b>Weight</b>	6 g	
<b>Dimensions</b>	3.3 x 26.65 x 29.85 mm	
<b>Operating Voltage</b>	3.3v +/- 10%	
<b>Temperature</b>	Operating	14° to 149° F (-10° to 65° C)
	Non-operating	-40° to 176° F (-40° to 80° C)
<b>Humidity</b>	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
<b>Altitude</b>	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
<b>LED Activity</b>	LED Off – Radio OFF; Solid LED On – RadioON	

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

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

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

**NOTE:** WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista and Win7.



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

#### Bluetooth Specification

V4.0 High Speed, V2.1+EDR, backwards compatible with V1.1, 1.2 and 2.0

**Number of Available Channels** 79 (1 MHz) available channels

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

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

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric

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

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

**Power Consumption** Peak (Tx) 330 mW  
Peak (Rx) 230 mW  
Sleep <17 mW

**Antenna** Internally integrated within module

**Range** Up to 33 ft (10 m)

**Electrical Interface** USB 2.0 compliant  
Microsoft Windows Plug and Play compliant

**Bluetooth Software Supported** Broadcom Bluetooth for Windows  
Microsoft Windows Bluetooth Software

**Link Topology** Point to Point, Multipoint Pico Nets up to 7 slaves

**Security** Full support of Bluetooth Security Provisions

**Power Management** Microsoft Windows ACPI, and USB Bus Support  
Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff

**Certifications** All necessary regulatory approvals for supported countries, including:  
FCC (47 CFR) Part 15C, Section 15.247 & 15.249  
ETS 300 328, ETS 300 826  
Low Voltage Directive IEC950  
UL, CSA, and CE Mark

**Bluetooth Profiles Supported** Generic Access Profile (GAP)  
Service Discovery Application Profile (SDAP)  
Serial Port Profile (SPP)  
Dial\_Up Networking Profile (DUN)  
Generic Object Exchange Profile (GOEP)  
Object Push Profile (OPP)  
File Transfer Profile (FTP)  
Synchronization Profile (SYNC)  
Hard Copy Cable Replacement (HCRP)  
Personal Area Networking Profile (PAN)  
Human Interface Device Profile (HID)  
Generic Audio/Video Distribution Profile (GAVDP)  
Advanced Audio/Video Distribution Profile (A2DP)  
FAX Profile (FAX)  
Basic Imaging Profile (BIP)  
Headset Profile (HSP)  
Hands Free Profile (HFP)  
Basic Printing Profile (BPP)  
VDP (Video Distribution Profile)



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

AVRCP (Audio Video Remote Control Profile)

\* Wireless access point and internet service required. Availability of public wireless access points limited.

\*\* Sold separately or as an optional add-on feature.

### AUDIO/MULTIMEDIA

Hardware	Implementation	IDT92HD99 High Definition CODEC		
	Function Key Volume Controls	Volume up, volume down, and mute		
	Full Duplex	Yes		
	Microphone In	Stereo		
	Headphone/Line Out	Stereo		
Audio Output Quality	Integrated Microphone	Yes, dual digital microphone array		
	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		
Internal Stereo Speaker	Power Rating	2 Watts		
	Impedance	4 ohms		
Power				
HP 45W Smart AC Adapter	Dimensions	3.78 x 1.95 x 0.88 in (9.6 x 4.95 x 2.24 cm)		
		Input	90 to 265 VAC	
	Input Efficiency		87% min at 115 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
	Connector	3 pin/grounded, mates with interchangeable cords		
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)	
		Non-operating (storage) temperature	-4° to 121° F (-20° to 85° C)	
		Altitude	0 to 16,405 ft (0 to 5,000 m)	
		Humidity	0% to 95%	
		Storage 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;	



# QuickSpecs

## HP x360 310 G1 PC

### Technical Specifications

		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 65W Slim Smart AC Adapter EM	Dimensions (H x W x D)	126.0 x 50.0 x 30.0 mm	
	Input	90 to 265 VAC	
		Input Efficiency	87% min at 115 VAC/230VAC
		Input frequency range	47 to 63 Hz
	Output	Input AC current	1.7 A at 90 VAC and maximum load
		Output power	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with 7.4mm barrel type Smart ID DC connector	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 121° F (-20° to 85° C)
		Altitude	0 to 16,405 ft (0 to 5,000 m)
		Humidity	0% to 95%
		Storage 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.	

### COUNTRY OF ORIGIN

China





# QuickSpecs

## HP x360 310 G1 PC

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

Type	Description	Part #
<b>Cases</b>	HP Slim Ultrabook Messenger (up to 15.6" x .88"/22/5mm)	F3W14AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
<b>Docking</b>	HP Universal Port Replicator (in testing)	E6D70AA#xxx
	HP 3001pr USB 3 Port Replicator	F3S42AA
	HP Display and Notebook Stand II	E8G00AA#xxx
	HP Dual Hinge II Notebook Stand	E8F99AA#xxx
<b>Input/Output</b>	HP Touch To Pair Mouse	H6E52AA
	HP Stylish Wireless KB/Mouse	H4B79AA
	HP 2.4GHz Keyboard and Mouse (Dachshund)	G1K29AA
	HDMI to VGA Adapter	H4F02AA
	HP HDMI to DVI Adapter	F5A28AA
<b>Memory</b>	HP 2GB DDR3L-1600 1.35V SODIMM	H6Y73AA#XXX
	HP 4GB DDR3L-1600 1.35V SODIMM	H6Y75AA#XXX
	HP 8GB DDR3L-1600 1.35V SODIMM	H6Y77AA#XXX
<b>Adapters</b>	HP 65W Smart AC Adapter	ED494AA#xxx
	HP 65W Smart AC Adapter (4.5mm)	H6Y89AA#xxx
	HP 90W Smart AC Adapter	ED495AA#xxx
	HP 90W Smart AC Adapter (4.5mm)	H6Y90AA#xxx
<b>Security</b>	HP Keyed Cable Lock	BV411AA
	HP UltraSlim Keyed Cable Lock	H4D73AA
	HP USB Smart Card Reader	F6V67AA
<b>Storage – External Storage</b>	HP External USB Optical Drive	F2B56AA
<b>Monitors</b>	HP U160 15.6-inch LED Backlit Monitor	C4M77AA or D4T56AA#xxx (check region for which sku is available)
	HP EliteDisplay E271i 27-inch IPS LED Monitor	D7Z72AA/A8/AS/AT
	HP EliteDisplay E231 23-inch LED Monitor	C9V75AA/A8/AS/AT
	HP EliteDisplay E201 20-inch LED Monitor	C9V73AA/A8/AS/AT
	HP ProDisplay P221 21.5" LED Monitor	C9E49AA/A8/AS/AT
	HP ProDisplay P201 20" LED Monitor	C9F26AA/A8/AS/AT

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# QuickSpecs

**HP x360 310 G1 PC**

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