# QuickSpecs

## Overview

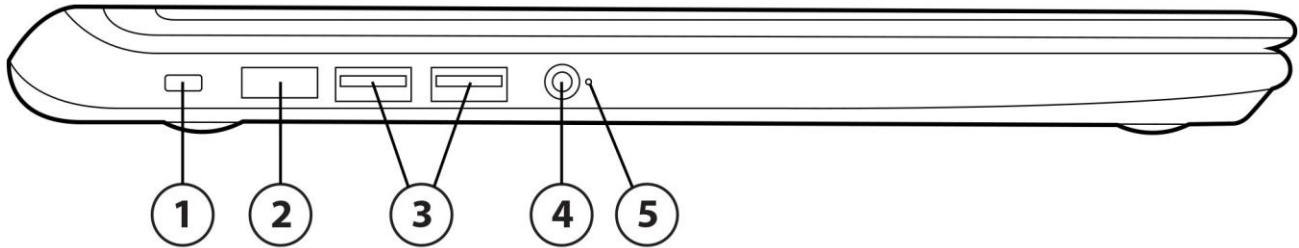**HP Chromebook14 G1**
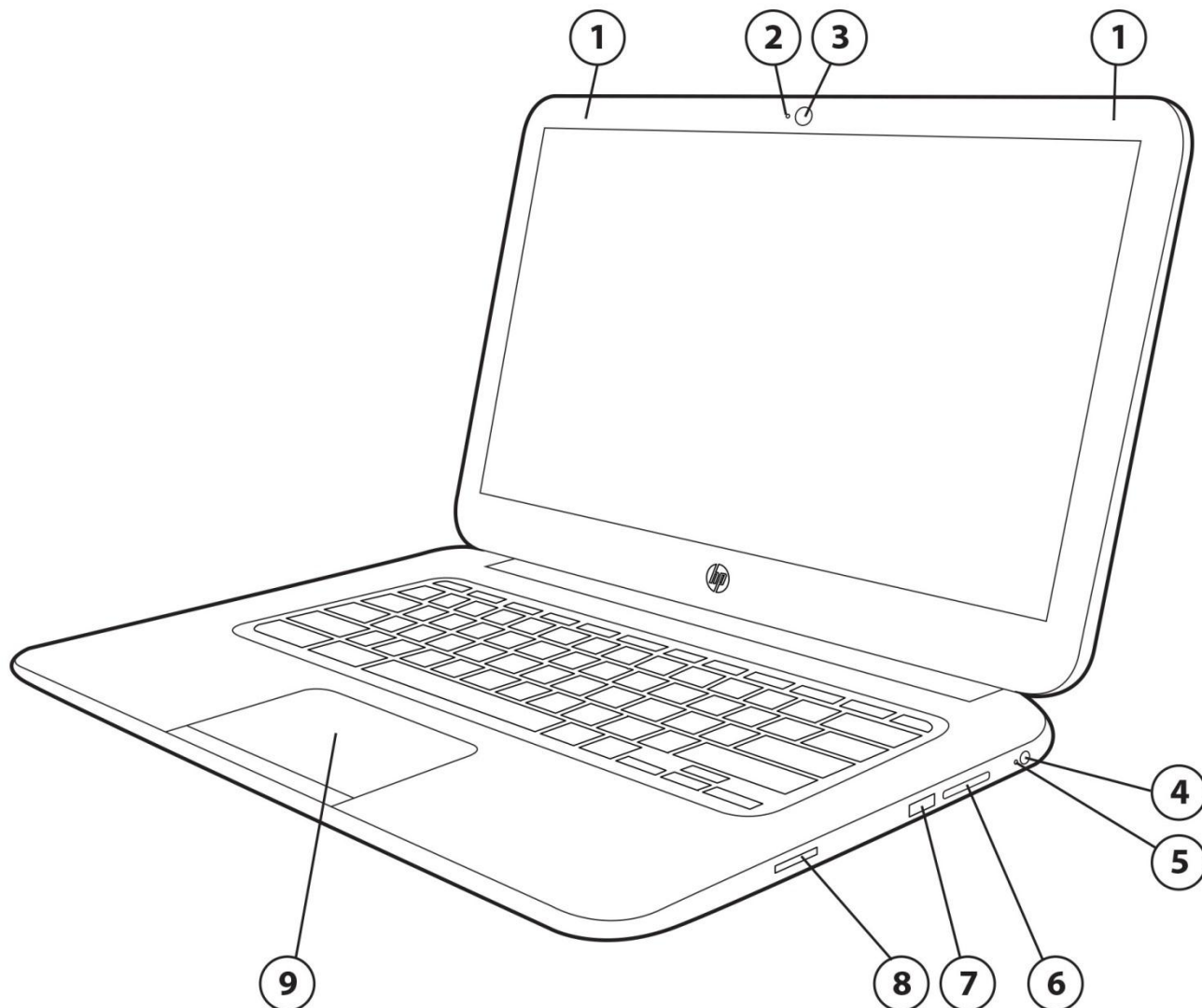


**Front/Right Image**

| | | | |
|---|---|---|---|
| 1. | WLAN antennas | 6. | Memory card reader |
| 2. | Webcam light | 7. | USB 2.0 port |
| 3. | Webcam | 8. | SIM slot |
| 4. | Power connector | 9. | TouchPad zone |
| 5. | AC adapter light | | |

# QuickSpecs

## Overview



**Left Image**

| | | | | |
|---|---|---|---|---|
| 1. | Security cable slot | | 4. | Headphone-out/microphone-in combo |
| 2. | HDMI port | | 5. | Power state LED indicator |
| 3. | USB 3.0 ports (2) | | | |

## AT A GLANCE

- Google Chrome OS
- Provides cloud computing functionality where you can access your files, applications, documents and profiles*
- Intel® HD Graphics
- Full-size, Island-style Chrome OS keyboard
- HDMI port for connecting to high-resolution displays
- Integrated HD webcam, integrated microphone
- Intel 802.11 a/b/g/n (2x2) wireless LAN module
- Optional HP cr3114 HSPA+ Mobile Broadband Module
- 14.0" diagonal LED-backlit HD BrightView display

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

## Features

### OPERATING SYSTEM

**Preinstalled**                    Chrome OS

### PROCESSOR

Intel® Celeron® 2955U 1(1.4 GHz, 2 MB L3 cache, 2 cores, 15W)*

* 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

Intel processor controller hub (PCH), ULT, soldered on circuit (SoC), integrated in MCP

### GRAPHICS

Integrated: Intel® HD* Graphics
Support for HD decode and HDMI

* High definition (HD) content is required to view high-definition images.

### DISPLAY

**Internal**
14.0" diagonal  HD* WLED BrightView (1366x768) flat (3.6mm) SVA
**External**
Up to 32-bit per pixel color depth
**HDMI**
1.4b port supports up to 1080p, 1920 x 1080 at 60Hz

* High definition (HD) content is required to view high-definition images.

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

### STORAGE AND DRIVES

**Primary Storage Bay**

**Solid State Drive**
16 GB or 32 GB M.2
**Cloud Storage**
Store up to 100 GB with Google Drive*

** This offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OS 23 or later.  Internet access is required and not included.  Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website:

# QuickSpecs

## Features

https://support.google.com/chromebook/answer/2703646?hl=en

### MEMORY

**Standard**
DDR3L SDRAM (1600 MHz)
One SODIMM slot
Standard memory of 4096 MB*

*Maximum memory speed supported by the system may be 1333 MHz or 1066 MHz.
**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

**Broadband Wireless (WWAN)**
Optional HP cr3114 HSPA+ Mobile Broadband Module*

**Wireless LAN (WLAN)**
Atheros AR9462 802.11a/b/g/n (2x2) Wi-Fi + BT 4.0 Combo Adapter**

* Wireless Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Sold separately or as an optional feature.
** Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

### AUDIO/MULTIMEDIA

**Audio**
High Definition Audio support
Stereo speakers
Headphone / Microphone Combo Jack
One digital microphone with echo cancellation and noise suppression appropriate software

**Webcam**
HP TrueVision HD slim webcamera*
- Supports videoconferencing and still image capture
- Improved quality for video streaming and still image capture (1280x720 resolution)
- Up to 30 frames/sec
- Fixed focus lens

* Internet access is required and not included.

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

**Keyboard**
The island-style Chrome OS keyboard features full-pitch key layout with features such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. International key layouts are available. Other features include hotkeys for instant access to, brightness, etc. 19-mm x 19-mm key pitch (center-to-center spacing), 2.2-mm stroke, comfort-dished keycaps, and bright key legends for improved visibility in low light conditions.

# QuickSpecs

## Features

### Pointing Devices
Clickpad with multi-touch gestures support

### Buttons and Function Keys
Power button

## SOFTWARE AND SECURITY

### Preinstalled Software
Chrome OS with default set of apps, HP registration app

### Security
TPM 1.2 Embedded Security Chip*
Security Cable Lock (Slot) (lock must be purchased separately)
Sign-on with your Google credentials

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

## POWER

### Power Supply
External 65W HP AC adapter (not available in India)
External 65W EM HP AC adapter (only available in India)
External 65W  HP Slim Travel AC adapter (only available in India)

Power cord included is 1.0 m (+/- 0.1 m).

### Primary Battery
HP 4-cell (51 WHr) Li-Ion polymer battery

### Power Conservation
Energy Star compliant

## WEIGHTS & DIMENSIONS

### Weight
Starting at < 4.19 lb (1.9 kg)

### Dimensions (w x d x h)
13.56 x 9.44 x 0.86 in
34.44 x  23.98 x 2.16 cm

**NOTE:** Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 4-cell battery, solid state drive, and 4 GB memory.

## PORTS/SLOTS

### Ports
HDMI v1.4b* - One
Headphone / Microphone in Combo -  One

## Features

Power Connector – One
USB 3.0 – Two (left side)
USB 2.0 – One (right side)

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

* HDMI cable sold separately.

### SERVICE AND SUPPORT

HP Services offers limited 1-year warranty options depending on country;
1-year limited warranty on primary battery. On-site service and warranty upgrades are also available. HP Care Pack
Services*,** extend service contracts beyond the standard warranties. To choose the right level of service for your HP product,
use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Pack Services*,**
information by product is available at:  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.  For details, visit 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 Requirements** (AC Power) | **Nominal Operating Voltage** | 18.5/19.5V |
| | **Max Operating Power** | < 65 W |
| **Temperature** | **Operating** | 41° to 95° F (5° to 35° C) |
| | **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** | Registered Silver in United States** |
| | **ICES** | Yes |
| | **Australia / NZ A-Tick Compliance** | Yes |
| | **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 (ICCP)** | Yes |
| | **SABS** | Yes |
| | **UKRSERTCOMPUTER** | Yes |

\* Configurations of the HP Chromebook14 that are ENERGY STAR qualified are identified as HP Chromebook14 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.

### DISPLAY

| | | |
|---|---|---|
| **14.0-inch LED HD (1366 x 768) BrightView** | **Dimensions** (W x H) | 12.74 x 7.56 in (32.4 x 19.2 cm) |
| | **Diagonal Size** | 14.0 in (35.6cm) |
| | **Surface Treatment** | BrightView |
| | **Contrast Ratio** | 400:1 (typical) |
| | **Refresh Rate** | 60 Hz |

## Technical Specifications

| | | |
|---|---|---|
| **Brightness** | 200 nit (typical) | |
| **Pixel Resolution** | **Pitch** | 0.227 mm |
| | **Format** | 1366 x 768 |
| | **Configuration** | RGB Stripe |
| **Backlight** | LED | |
| **PPI** | 112 ppi | |
| **Viewing Angle** | ±30° Horizontal, ±10° Vertical (minimum)<br>30/30/20/10 (Left/Right/Down/Up) (minimum) or<br>45/45/35/25 (Left/Right/Down/Up) (typical) | |

### STORAGE AND DRIVES

**Internal Storage**

| | | |
|---|---|---|
| **SATA 6Gb/s 16 GB, 2242 M.2 Solid State Drive** | **Drive Weight** | 6 Grams max. |
| | **Capacity** | 16 GB |
| | **Height** | 0.138 in (3.65mm) |
| | **Width** | 0.866 in (22 mm) |
| | **Interface** | M.2 SATA Gen6 (6 Gb/s) |
| | **Performance** | **Maximum Sequential Read**      **Maximum Sequential Write** |
| | | Up to 210 MB/s            Up to 30 MB/s |
| | **Logical Blocks** | 31,277,232 |
| | **Operating Temperature** | 32° to 158°F (0° to 70°C) [case temp] |
| | **Features** | ATA Security; ATA-8, SATA 3.0; DIPM; TRIM |
| **SATA 6Gb/s 32 GB, 2242 M.2 Solid State Drive** | **Drive Weight** | Up to 10 Grams |
| | **Capacity** | 32 GB |
| | **Height** | 0.138 in (3.5mm) |
| | **Width** | 0.866 in (22 mm) |
| | **Interface** | M.2 SATA Gen6 (6 Gb/s) |
| | **Performance** | **Maximum Sequential Read**     **Maximum Sequential Write** |
| | | Up to 380 MB/s           Up to 70 MB/s |
| | **Logical Blocks** | 62,533,296 |
| | **Operating Temperature** | 32° to 158°F (0° to 70°C) [case temp] |
| | **Features** | ATA Security; ATA-8, SATA 3.0; DIPM; TRIM |

### NETWORKING/COMMUNICATIONS

| | | |
|---|---|---|
| **HP cr3114 HSPA+ Mobile Broadband*** | **Technology/Operating Bands** | Modes: WCDMA/HSDPA/HSUPA/HSPA+/AWS/GSM/EDGE/GPRS |
| | | Penta-band WCDMA/HSDPA/HSUPA/HSPA+/AWS: 850/900/1900/2100/AWS |

## Technical Specifications

| Module | | MHz |
|---|---|---|
| | | GSM/GPRS/EDGE: 850/900/1800/1900 MHz |
| | **Wireless Protocol Standards** | GSM/GPRS/EDGE: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9.<br>UMTS/WCDMA: Release 99 and Release 7<br>Advanced Receiver Type 3i |
| | **GPS** | GPS Standalone, A-GPS: L1 (Internet- and Network assisted) |
| | **Wireless Parametric Standards** | Complies with 3GPP specifications |
| | **Maximum Data Rates** | GPRS/EDGE:  Multi-slot Class 33, Class B<br>WCDMA PS:  UL (384 kbps) / DL (384 kbps)<br>UL/DL HSPA:  UL (5.76 Mbps)/ DL (7.2 Mbps)<br>UL/DL HSPA+:  UL (5.76 Mbps)/ DL (21Mbps) |
| | **Maximum Output Power** | WCDMA/HSPA/HSPA+ 2100/1900/900/850/AWS MHz:<br><br>+24dBm (Power Class 3) |
| | | GPRS 1900/1800 MHz:        +30dBm (Power Class 1) |
| | | GPRS 900/850 MHz:         +33dBm (Power Class 4) |
| | | EDGE 1900/1800 MHz:        +26dBm (Power Class E2) |
| | | EDGE 900/850 MHz:         +27dBm (Power Class E2) |
| | **Maximum Power Consumption** | 2500mA (peak); 600mA (average) |
| | **Power Consumption, Sleep Mode** | 3.6 mA |
| | **Power Management** | USB selective suspend, Connected Standby<br>Integrated notebook wireless button |
| | **Antenna Type** | Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure |
| | **Form Factor** | M.2 Socket 2,  USB 2.0 interface high speed |
| | **Weight** | < 6g |

\* 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 AR9462 | **Wireless LAN Standards** | IEEE 802.11a<br>IEEE 802.11b |
|---|---|---|

## Technical Specifications

| | | |
|---|---|---|
| **802.11abgn (2x2) Wi-Fi +**<br>**BT 4.0 Combo Adapter*** | | IEEE 802.11g<br>IEEE 802.11n |
| | **Interoperability** | Wi-Fi certified<br>Cisco Compatible Extensions Program |
| | **Frequency Band** | 802.11b/g/n: 2.4 GHz and 5 GHz<br>802.11a/n: 4.9 - 4.95 GHz (Japan)<br>        5.15 - 5.25 GHz<br>        5.25 - 5.35 GHz<br>        5.47 - 5.725 GHz<br>        5.825 - 5.850 GHz |
| | **Data Rates** | 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>802.11b: 1, 2, 5.5, 11 Mbps<br>802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>802.11n: card will support rates for NSS=1 and NSS=2 for RX and TX for 20 and 40 MHz channels. Short and long guard interval shall be supported. |
| | **Modulation** | Direct Sequence Spread Spectrum<br>DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM |
| | **Security**[1] | 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. |
| | **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)<br>Infrastructure (Access Point Required) |
| | **Roaming** | IEEE 802.11 compliant roaming between access points |
| | **Output Power**[2] | 13.5 dBm , nominal |
| | **Power Consumption** | Idle associated: 250 mW<br>Idle unassociated: 100 mW<br>Radio disabled: 75mW<br>Transmit: 2.0 W (max)<br>Receive: 1.6 W (max) |
| | **Power Management** | ACPI compliant power management<br>802.11 compliant power saving mode |
| | **Receiver Sensitivity**[3] | 300 Mbps: -66 dBm, 54 Mbps: -74 dBm, 11 Mbps: -88 dBm , 1 Mbps: -95 dBm |
| | **Antenna Type** | Two embedded, high efficiency dual band antennae with spatial diversity, mounted in the display enclosure |
| | **Form Factor** | PCI-Express Half-MiniCard 1.2 |
| | **Weight** | 0.013 lb (6 g) |
| | **Dimensions** | 0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm) |
| | **Operating Voltage** | 3.3v +/- 10% |
| | **Temperature** | Operating        14° to 158° F (-10° to 70° C)<br>Non-operating   -40° to 176° F (-40° to 80° C) |
| | **Humidity** | Operating        10% to 90% (non-condensing)<br>Non-operating   5% to 95% (non-condensing) |
| | **Altitude** | Operating        0 to 10,000 ft (3,048 m) |

## Technical Specifications

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

| **Bluetooth 4.0 Wireless Technology** | **Bluetooth Specification** | 2.1+EDR, 3.0+HS, 4.0 Compliant |
|---|---|---|
|  | **Dimensions** | 1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm) |
|  | **Frequency Band** | 2402 to 2480 MHz |
|  | **Number of Available Channels** | 79 (1 MHz) available channels |
|  | **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** | Max 4 dBm (Bluetooth Class II) |
|  | **Receiver Sensitivity** | Better than -80 dBM at 0.1 % raw bit error rate |
|  | **Power Consumption** | Average 230mW |
|  |  | Sleep <1 mW |
|  | **Antenna** | Internally integrated within module |
|  | **Range** | Up to 33 ft (10 m) |
|  | **Electrical Interface** | USB 2.0 compliant |
|  | **Link Topology** | Point to Point, Multipoint Pico Nets up to 7 slaves |
|  | **Security** | Full support of Bluetooth Security Provisions |
|  | **Power Management** | USB Bus Support |
|  |  | Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff |
|  | **Certifications** | All necessary regulatory approvals for supported countries, including: |
|  |  | FCC (47 CFR) Part 15C, Section 15.247 & 15.249 |
|  |  | ETS 300 328, ETS 300 826 |
|  |  | Low Voltage Directive IEC950 |
|  |  | UL, CSA, and CE Mark |
|  | **Temperature** | Operating | -4° to 158° F (-20° to 70° C) |
|  |  | Non-operating | -40° to 176° F (-40° to 80° C) |
|  | **Humidity** | Operating | 10% to 90% |
|  |  | Non-operating | 5% to 95% |
|  | **Altitude** | Operating | 15,000 ft (4,572 m) |
|  |  | Non-operating | 40,000 ft (12,192 m) |
|  | **Bluetooth Profiles Supported** | Serial Port Profile (SPP) |
|  |  | Service Discovery Application Profile (SDAP) |
|  |  | Dial-Up Networking (DUN) |
|  |  | Generic Object Exchange Profile (GOEP) |

## Technical Specifications

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)

FAX Profile (FAX)

Basic Imaging Profile (BIP)

Headset Profile (HSP)

Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

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

### AUDIO/MULTIMEDIA

**Audio**

| **Hardware** | **Implementation** | HD Audio |
| --- | --- | --- |
| | **Volume Controls** | Up, down, and mute function keys |
| | **Full Duplex** | Yes |
| | **Microphone In** | Stereo |
| | **Headphone/Line Out** | Stereo |
| | **Integrated Microphone** | Yes |
| | | |
| **Audio Output Quality** | **Frequency Response** | 10 Hz ~ 22 KHz |
| | **Signal to Noise Ratio** | Typical 95 dB FSA (DAC) |
| | **Total Harmonic Distortion** | Typical -88 dB FS (DAC) |
| | **Noise Floor** | -110 dB |
| | **Play/Record Sampling Rate(s)** | Up to 192 KHz |
| | **DAC** | 24 bits |
| | **ADC** | 24 bits |
| | | |
| **Integrated Altec Lansing Stereo Speakers** | **Power Rating** | 1.5 W |
| | **Impedance** | 4 ohms |

**Multimedia**

| **Integrated HD Webcam** | Supports videoconferencing and still image capture |
| --- | --- |
| | Improved quality for video streaming and still image capture (1280x720 resolution) |
| | Up to 30 frames/sec |
| | Fixed focus lens |

### POWER

| **HP 65W AC Adapter** | **Dimensions** | 4.21 x 1.85 x 1.18 in (10.7 x 4.7 x 3.0 cm) |
| --- | --- | --- |
| | **Weight** | 0.62 lb (280 g) |
| | **Input** | 100 to 240 VAC |

# QuickSpecs

## Technical Specifications

| | | | |
|---|---|---|---|
| | | Input Efficiency | 87% min at 115 VAC |
| | | Input frequency range | 47 to 63 Hz |
| | | Input AC current | 1.7 A at 90 VAC |
| | **Output** | Output power | 65W |
| | | DC output | 18.5/19.5V |
| | | 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 interchangeable cords | |
| | **Environmental Design** | Operating temperature | 41° to 95° F (5° to 35° C) |
| | | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |
| | | Altitude | 0 to 5,000 ft (0 to 1,524 m) |
| | | Humidity | 20% to 95% |
| | | Storage Humidity | 10% 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; MTBF - over 200,000 hours at 25°C ambient condition. | |
| **4-Cell (51 WHr) Lithium-Ion polymer battery** | **Dimensions** (h x w x l) | 3.71 x 68.2 x 110.3mm | |
| | **Cells/Type** | 4-cells/Lithium-Ion polymer | |
| | **Voltage** | Nominal | 7.5 V |
| | **Energy e** | Watt-hour capacity | 51 WHr |
| | **Temperature** | Operating (Charging) | 32° to 113° F (0° to 45° C) |
| | | Operating (Discharging) | 14° to 140° F (-10° to 60° C) |
| | | Non-operating | -4° to 140° F (-20° to 60° C) |
| | **Battery Re-Charge Time** | System in OFF or Standby Mode | 2.5 hours |
| | | System ON | 3 to 5 hours (depending on system power consumption) |

## COUNTRY OF ORIGIN

Made in China

## Technical Specifications

warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.