

## Overview

### HP Chromebook Enterprise 14 G6



1. **Microphones (2)**
2. **HD Camera**
3. **Privacy Camera (Optional)**
4. **Camera LED**

#### *Left*

5. **Touch Pad**
6. **USB Type-A™ 3.1 Gen1 Port**
7. **HDMI 2.0**
8. **Nano Security Lock Slot**

## Overview



### Right

1. **Power Button**
2. **USB Type-C™ 3.1 Gen1 Port  
(Support charging, Power delivery, Video, Data)**
3. **USB Type-A™ 3.1 Gen1 Port**
4. **Micro SD**
5. **Headphone / Microphone Combo Jack**

## Overview

### AT A GLANCE

- **Chrome Enterprise Upgrade embedded<sup>1</sup>**
- **Support latest Intel® Core™ Celeron® quad core processors**
- **Up to 8 GB memory and 128 GB eMMC storage options**
- **Fast data transfer in dense classroom environments by having 2x2 WLAN with MIMO and Extended Wide Range Antenna design**
- **Optional backlit keyboard**
- **Narrow bezel display design**
- **Optional touchscreen for intuitive interactions**
- **Optional HP Privacy Camera**
- **Fast charging technology with long-life battery**
- **One HDMI port to connect to displays and projectors without dongle**
- **USB Type-C™ docking support**
- **18.35 mm thin (.72 inches measured at the hinge)**
- **Weight starting at 1.54 kg (3.39 lb)**
- **Battery life up to 13 hours and 30 minutes<sup>2</sup>**
- **Front-facing 720p HD camera comes with two microphones**
- **Android Apps ready (may require purchase, Internet access required)**

1. **Single Chrome Enterprise Upgrade included. Requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see <https://support.google.com/a/answer/60216>.**
2. **Testing conducted by HP using Google Chrome OS power\_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details.**

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

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## Technical Specifications

### PRODUCT NAME

HP Chromebook Enterprise 14 G6

### OPERATING SYSTEM

Preinstalled **Chrome OS™ 64-bit with Chrome Enterprise Upgrade\***

**\*Single Chrome Enterprise Upgrade included. Requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see <https://support.google.com/a/answer/60216>**

### PROCESSOR

Intel® Celeron® N4120 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.5 GHz boost frequency, 4 MB cache, 4cores)<sup>1,2,3</sup>

Intel® Celeron® N4020 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.7 GHz boost frequency, 4 MB cache, 2cores)<sup>1,2,3</sup>

Processor Family

Intel® Celeron® processor (N4120, N4020)

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

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

**3. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.**

### CHIPSET

Chipset is integrated with processor

### GRAPHICS

Integrated

Intel® UHD Graphics 600<sup>4</sup>

Supports

Support HD decode, DX12, HDMI 1.4b<sup>4</sup>

**4. HD content required to view HD images.**

## Technical Specifications

### DISPLAY

#### Non-Touch

- 35.56 cm (14") diagonal HD SVA anti-glare LED-backlit, 220 nits, 45% NTSC (1366 x 768), Narrow Bezel
- 35.56 cm (14") diagonal HD SVA anti-glare LED-backlit, 220 nits, 45% NTSC (1366 x 768), Narrow Bezel, Privacy Shutter
- 35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 250 nits, 45% NTSC (1920 x 1080), Narrow Bezel
- 35.6 cm (14") diagonal FHD IPS anti-glare LED-backlit, 250 nits, 45% NTSC (1920 x 1080), Narrow Bezel, Privacy Shutter

#### Touch

- 35.56 cm (14") diagonal HD SVA BrightView LED-backlit TOP touch, 220 nits, 45% NTSC (1366 x 768), Narrow Bezel<sup>4,5</sup>
- 35.56 cm (14") diagonal HD SVA BrightView LED-backlit TOP touch, 220 nits, 45% NTSC (1366 x 768), Narrow Bezel, Privacy Shutter<sup>4,5</sup>
- 35.56 cm (14") diagonal FHD SVA anti-glare LED-backlit TOP touch, 250 nits, 45% NTSC (1920 x 1080), Narrow Bezel<sup>4,5</sup>
- 35.56 cm (14") diagonal FHD SVA anti-glare LED-backlit TOP touch, 250 nits, 45% NTSC (1920 x 1080), Narrow Bezel, Privacy Shutter<sup>4,5</sup>

#### HDMI

**HDMI v1.4b supporting: up to 1920x1080**

#### Displays support

**support dual displays through HP docks<sup>6</sup>**

- 4. HD content required to view HD images.**
- 5. Resolutions are dependent upon monitor capability, and resolution and color depth settings.**
- 6. Sold separately or as an optional feature.**

### STORAGE AND DRIVES

#### Primary Storage

- 16 GB eMMC 5.0<sup>7</sup>**
- 32 GB eMMC 5.0<sup>7</sup>**
- 64 GB eMMC 5.0<sup>7</sup>**
- 128 GB eMMC 5.0<sup>7</sup>**

**7. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 8.1 GB is not user available**

### MEMORY

#### Maximum Memory

**8 GB LPDDR4-2400 SDRAM**

#### Memory

- 4 GB LPDDR4-2400 SDRAM**
- 8 GB LPDDR4-2400 SDRAM**

#### Memory Slots

**On-board system memory**  
**Supports Dual Channel Memory**

## Technical Specifications

### NETWORKING/COMMUNICATIONS

#### WLAN

**Intel® Dual Band Wireless-AC 9560 802.11 ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™<sup>8</sup> MU-MIMO supported<sup>9</sup>**

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

**9. Multiple-Input Multiple-Output (MIMO) is a wireless technology that uses multiple transmitters and receivers to enhance data transfer. MIMO requires a MU-MIMO router, sold separately.**

### AUDIO/MULTIMEDIA

#### Audio

**HD audio**

**Dual stereo speakers**

**Integrated dual array microphone**

#### Camera

**720p HD camera<sup>4</sup>**

**HP Privacy Camera (Optional)**

**4. HD content required to view HD images.**

### KEYBOARD / POINTING DEVICES

#### Keyboard

**Full-size island-style Chrome keyboard, Cool Gray, spill resistant**











**Full-size island-style Chrome keyboard, backlit, Cool Gray, spill resistant<sup>10</sup>**

#### Pointing Device

**Touchpad with multi-touch gesture support**

**Taps enabled as default**

#### Function Keys

-  **Go to the previous page**
-  **Go to the next page**
-  **Refresh your current page**
-  **Make your page take up the full screen**
-  **Show all your open windows**
-  **Decrease screen brightness**
-  **Make the screen brighter**
-  **Turn off the sound**
-  **Lower the volume**
-  **Raise the volume**

## Technical Specifications

**10. Backlit keyboard is an optional feature.**

### SOFTWARE AND SECURITY

#### Preinstalled Software

**Store up to 100 GB with Google Drive (2-year subscription included)<sup>11</sup>**

#### Manageability Features

**Chrome Enterprise Upgrade<sup>12, 13</sup>**

#### Security Management

**Google H1 Security Chip**

**Nano Security Lock<sup>12</sup>**

**11. Google Drive 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: <https://support.google.com/chromebook/answer/2703646?hl=en>.**

**12. Sold separately.**

**13. Requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see <https://support.google.com/a/answer/60216>.**

### POWER

#### Power Supply

**AC Adapter 45 Watt nPFC Standard USB type C Straight<sup>14</sup>**

#### Primary Battery

**HP Long Life 2-cell, 47.36 Wh Li-ion; support fast charge<sup>15</sup>**

#### Power Cord

**3-wire plug - 1 m**

#### Battery life

**Up to 13 hours and 30 minutes<sup>16</sup>**

**14. Availability may vary by country.**

**15. Battery is internal and not replaceable by customer. Serviceable by warranty.**

**16. Testing conducted by HP using Google Chrome OS power LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details.**

## Technical Specifications

### WEIGHTS & DIMENSIONS

#### Product Weight

**Starting at 1.54 kg (3.39 lb)<sup>17</sup>**

#### Product Dimensions (w x d x h)

**32.65 x 22.7 x 1.83 cm**

**12.85 x 8.94 x .72 in**

**17. Weight will vary by configuration.**

### PORTS/SLOTS

#### Ports

**1 USB 3.1 Type-C™ Gen 1 (Charging, power delivery, video, data)**

**2 USB 3.1 Type-A™ Gen 1**

**1 HDMI 2.0**

**1 Headphone/Microphone Combo Jack**

#### Expansion Slots

**1 multi-format digital media reader**

**Supports SD, SDHC, SDXC**

**Push-Push Insertion/Removal**

### ENVIROMENTAL

#### Eco-Label Certifications & declarations

**This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:**

• **IT ECO declaration**

• **US ENERGY STAR®**

• **EPEAT® Silver registered in the United States. See <http://www.epeat.net> for registration status in your country.**

• **TCO Certified 8.0**

#### System Configuration

**The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.**

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

115VAC, 60Hz

230VAC, 50Hz

100VAC, 60Hz

## Technical Specifications

Normal Operation (Sort idle)	3.49 W	3.46 W	3.39 W
Normal Operation (Long idle)	0.948 W	1.088 W	0.912 W
Sleep	0.36 W	0.42 W	0.36 W
Off	0.33 W	0.39 W	0.33 W

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

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	12 BTU/hr	12 BTU/hr	12 BTU/hr
Normal Operation (Long idle)	3 BTU/hr	3 BTU/hr	3 BTU/hr
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

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

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power ( $L_{WA,d}$ , bels)	Sound Pressure ( $L_{pAm}$ , decibels)
Typically Configured – Idle	2.2	22
Fixed Disk – Random writes	2.2	22

### 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.

## Technical Specifications

### Batteries

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

**Batteries used in the product do not contain:**

**Mercury greater than 1ppm by weight**

**Cadmium greater than 20ppm by weight**

**Battery size: CR2032 (coin cell)**

**Battery type: Lithium**

### 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 1680.1 (EPEAT) standard at the <Silver> level, see [www.epeat.net](http://www.epeat.net)

• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.

• This product contains 3% post-consumer recycled plastic (by wt.)

• This product is 94.5% recycle-able when properly disposed of at end of life.

### Packaging Materials

*External:* PAPER/Corrugated 281 g

PAPER/Paper 196 g

*Internal:* PLASTIC/Polyethylene low density - LDPE 9 g

### 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.

## Technical Specifications

### *Packaging Usage*

- **Radioactive Substances**

- **Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)**

HP follows these guidelines to decrease the environmental impact of product packaging:

- **Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.**
- **Eliminate the use of ozone-depleting substances (ODS) in packaging materials.**
- **Design packaging materials for ease of disassembly.**
- **Maximize the use of post-consumer recycled content materials in packaging materials.**
- **Use readily recyclable packaging materials such as paper and corrugated materials.**
- **Reduce size and weight of packages to improve transportation fuel efficiency.**
- **Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.**

### *End-of-life Management and Recycling*

HP Inc. 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](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>

## Technical Specifications

### *SERVICE AND SUPPORT*

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.<sup>18</sup>

**18. HP Care Packs are sold separately. 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 <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.**

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## Technical Specifications

### SYSTEM UNIT

<i>Stand-Alone Power Requirements (AC Power)</i>	<b>USB-C 45 W adapter</b>	
	<i>Nominal Operating Voltage</i>	<b>15 V</b>
	<i>Average Operating Power</i>	<b>&lt; 4.5 W</b>
	<i>Integrated Graphics</i>	<b>HD Graphics 600 12EUs</b>
	<i>Max Operating Power</i>	<b>&lt; 45 W</b>
<i>Temperature</i>	<i>Operating</i>	<b>41° to 95° F (5° to 35° C)</b>
	<i>Non-operating</i>	<b>-4° to 140° F (-20° to 60° C)</b>
<i>Relative Humidity</i>	<i>Operating</i>	<b>10% to 90%</b>
	<i>Non-operating</i>	<b>5% to 95%</b>
<i>Shock</i>	<i>Operating</i>	<b>40 G, 2 ms, half-sine</b>
	<i>Non-operating</i>	<b>240 G, 2 ms, half-sine</b>
<i>Random Vibration</i>	<i>Operating</i>	<b>1.043 grms</b>
	<i>Non-operating</i>	<b>3.5 grms</b>
<i>Altitude (unpressurized)</i>	<i>Operating</i>	<b>-50 to 10,000 ft (-15 to 3,048 m)</b>
	<i>Non-operating</i>	<b>-50 to 40,000 ft (-15 to 12,192 m)</b>
<i>Planned Industry Standard Certifications</i>	<i>UL</i>	<b>Yes</b>
	<i>FCC Compliance</i>	<b>Yes</b>
	<i>ENERGY STAR®</i>	<b>Yes<sup>21</sup></b>
	<i>EPEAT® 2019</i>	<b>Yes, Silver in U.S.<sup>22</sup></b>
	<i>ICES</i>	<b>Yes</b>
	<i>Australia /</i>	<b>Yes</b>
	<i>NZ RCM Compliance</i>	<b>Yes</b>
	<i>CCC</i>	<b>Yes</b>
	<i>KC</i>	<b>Yes</b>
	<i>BSMI</i>	<b>Yes</b>
	<i>CE Marking Compliance</i>	<b>Yes</b>
	<i>EAC</i>	<b>Yes</b>
	<i>Saudi Arabian Compliance (ICCP)</i>	<b>Yes</b>
	<i>SABS</i>	<b>Yes</b>

**21. Configurations of the HP ChromeBook Enterprise 14 G6 that are ENERGY STAR® qualified are identified as HP ChromeBook Enterprise 14 G6 ENERGY STAR on HP websites and on <http://www.energystar.gov>.**

**22. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit <http://www.epeat.net> for more information.**

## Technical Specifications

### DISPLAYS

**Note: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.**

<i>14 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP slim NB</i>	<b>Outline Dimensions (W x H x D)</b>	<b>316.11 x 197.98 max.</b>
	<i>Active Area</i>	<b>309.31 x 173.99 (mm)</b>
	<i>Weight</i>	<b>285 g max.</b>
	<i>Diagonal Size</i>	<b>14.0 (inch)</b>
	<i>Thickness</i>	<b>3.0 (mm) max</b>
	<i>Interface</i>	<b>eDP1.2</b>
	<i>Surface Treatment</i>	<b>Anti-glare (AG)</b>
	<i>Contrast Ratio</i>	<b>600:1 (typical)</b>
	<i>Refresh Rate</i>	<b>60Hz</b>
	<i>Brightness</i>	<b>250 nit typical (Panel Only)</b>
	<i>Pixel Resolution</i>	<b>1920 x 1080 (FHD)</b>
	<i>Format of LCD Pixel Arrangement</i>	<b>RGB</b>
	<i>Backlight</i>	<b>LED</b>
	<i>Color Gamut Coverage</i>	<b>45% of NTSC</b>
	<i>Color Depth</i>	<b>6-bit</b>
<i>Viewing Angle</i>	<b>UWVA 85/85/85/85</b>	

<i>14 inch diagonal FHD (1920 x 1080) Anti-Glare WLED UWVA 45% NTSC 250 nits eDP slim Touch on Panel NWBZ</i>	<b>Outline Dimensions (W x H x D)</b>	<b>316.17 x 198.07 (mm) max</b>
	<i>Active Area</i>	<b>309.37 x 174.02 (mm)</b>
	<i>Weight</i>	<b>290 g max</b>
	<i>Diagonal Size</i>	<b>14.0 (inch)</b>
	<i>Thickness</i>	<b>3.0 (Panel Side); 3.2 (PCBA Side)(mm) max</b>
	<i>Interface</i>	<b>eDP 1.2</b>
	<i>Surface Treatment</i>	<b>Anti-glare (AG)</b>
	<i>Touch Enabled</i>	<b>Yes</b>
	<i>Contrast Ratio</i>	<b>600:1 (typical)</b>
	<i>Refresh Rate</i>	<b>60Hz</b>
	<i>Brightness</i>	<b>250 nit typical (Panel Only)</b>
	<i>Pixel Resolution</i>	<b>1920 x 1080 (FHD)</b>
	<i>Format of LCD Pixel Arrangement</i>	<b>RGB</b>
	<i>Backlight</i>	<b>LED</b>
	<i>Color Gamut Coverage</i>	<b>45% of NTSC</b>
<i>Color Depth</i>	<b>6 bits</b>	
<i>Viewing Angle</i>	<b>UWVA 85/85/85/85</b>	

## Technical Specifications

<i>14 inch diagonal HD (1366 x 768) BrightView WLED SVA 45% NTSC 220 nits slim Touch on Panel NWBZ</i>	<i>Outline Dimensions (W x H x D)</i>	<b>316.2 x 198.04 max. (w/ PCB)</b>
	<i>Active Area</i>	<b>309.4 x 173.95 (mm)</b>
	<i>Weight</i>	<b>290 g max</b>
	<i>Diagonal Size</i>	<b>14.0 (inch)</b>
	<i>Thickness</i>	<b>3.0 (Panel Side); 3.2 (PCBA Side)(mm) max</b>
	<i>Interface</i>	<b>eDP 1.2</b>
	<i>Surface Treatment</i>	<b>BV</b>
	<i>Touch enabled</i>	<b>Yes</b>
	<i>Contrast Ratio</i>	<b>500:1 (typical)</b>
	<i>Refresh Rate</i>	<b>60 Hz</b>
	<i>Brightness</i>	<b>220 nit typical (Panel Only)</b>
	<i>Pixel Resolution</i>	<b>1366 x 768</b>
	<i>Format of LCD Pixel Arrangement</i>	<b>RGB</b>
	<i>Backlight</i>	<b>LED</b>
	<i>Color Gamut Coverage</i>	<b>45% of NTSC</b>

*Color Depth*  
*Viewing Angle*

**6 bits**  
**SVA 45/45/15/30**

<i>14.0" diagonal HD SVALED-backlight; 220 nits 45% NTSC (1366 x 768)</i>	<i>Outline Dimensions (W x H x D)</i>	<b>316.2 x 186 (mm) max</b>
	<i>Active Area</i>	<b>309.4 x 173.95 (mm)</b>
	<i>Weight</i>	<b>280 g max.</b>
	<i>Diagonal Size</i>	<b>14.0 (inch)</b>
	<i>Thickness</i>	<b>3.0 (mm) max</b>
	<i>Interface</i>	<b>eDP 1.2</b>
	<i>Surface Treatment</i>	<b>Anti-glare (AG)</b>
	<i>Touch enabled</i>	<b>None</b>
	<i>Contrast Ratio</i>	<b>500:1 (typical)</b>
	<i>Refresh Rate</i>	<b>60 Hz</b>
	<i>Brightness</i>	<b>220 nit typical</b>
	<i>Pixel Resolution</i>	<b>1366 x 768 (HD)</b>
	<i>Format of LCD Pixel Arrangement</i>	<b>RGB</b>
	<i>Backlight</i>	<b>LED</b>
	<i>Color Gamut Coverage</i>	<b>45% of NTSC</b>

*Color Depth*  
*Viewing Angle*

**6 bits**  
**45/45/20/45**

## Technical Specifications

### STORAGE AND DRIVES\*

16 G emmc	Capacity	<b>16 GB</b>
	Height	<b>1.4 mm</b>
	Width	<b>11.5 x 13 mm</b>
	Interface	<b>MMC potocal</b>
	Maximum Sequential Read	<b>Up to 250 MB/s</b>
	Maximum Sequential Write	<b>Up to 70 MB/s</b>
	Logical Blocks	<b>16 GB (15,758,000,128 Bytes)</b>
	Operating Temperature	<b>0 to 70</b>
	Features	<b>HS400</b>

32 G emmc	Capacity	<b>32 GB</b>
	Height	<b>1.4 mm</b>
	Width	<b>11.5 x 13 mm</b>
	Weight	<b>0.2 g</b>
	Interface	<b>MMC potocal</b>
	Maximum Sequential Read	<b>Up to 250 MB/s</b>
	Maximum Sequential Write	<b>Up to 70 MB/s</b>
	Logical Blocks	<b>32 GB (31,268,536,320 Bytes)</b>
	Operating Temperature	<b>0 to 70</b>
Features	<b>HS400</b>	

64 G emmc	Capacity	<b>64 GB</b>
	Height	<b>1.4 mm</b>
	Width	<b>11.5 x 13 mm</b>
	Interface	<b>MMC potocal</b>
	Maximum Sequential Read	<b>Up to 250 MB/s</b>
	Maximum Sequential Write	<b>Up to 70 MB/s</b>
	Logical Blocks	<b>64 GB (62,537,072,640 Bytes)</b>
	Operating Temperature	<b>0 to 70</b>
	Features	<b>HS400</b>

## Technical Specifications

128 G emmc	Capacity	<b>128 GB</b>
	Height	<b>1.4 mm</b>
	Width	<b>11.5 x 13 mm</b>
	Weight	<b>0.2 g</b>
	Interface	<b>MMC potocal</b>
	Maximum Sequential Read	<b>Up to 250 MB/s</b>
	Maximum Sequential Write	<b>Up to 150 MB/s</b>
	Logical Blocks	<b>116.48 GB (125,074,145,280 Bytes)</b>
	Operating Temperature	<b>0 to 70</b>
	Features	<b>HS400</b>

**\*For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 8.1 GB is not user available**

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## Technical Specifications

### NETWORKING/COMMUNICATIONS

Intel® 9560	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
802.11a/b/g/n/ac (2 x 2)		
Wi-Fi® and Bluetooth® 5.0		
Combo <sup>1</sup> non-vPro		
	Interoperability	Wi-Fi certified
	Frequency Band	<ul style="list-style-type: none"> <li>•802.11b/g/n 2.402 – 2.482 GHz</li> <li>•802.11a/n/ac 4.9 – 4.95 GHz (Japan)</li> <li>5.15 – 5.25 GHz</li> <li>5.25 – 5.35 GHz</li> <li>5.47 – 5.725 GHz</li> <li>5.825 – 5.850 GHz</li> </ul>
	Data Rates	<ul style="list-style-type: none"> <li>•802.11b: 1, 2, 5.5, 11 Mbps</li> <li>•802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>•802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>•802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)</li> <li>•802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz &amp; 80MHz)</li> </ul>
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security <sup>3</sup>	<ul style="list-style-type: none"> <li>•IEEE 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>•AES-CCMP: 128 bit in hardware</li> <li>•802.1x authentication</li> <li>•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>•WPA2 certification</li> <li>•IEEE 802.11i</li> <li>•WAPI</li> </ul>
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power <sup>2</sup>	<ul style="list-style-type: none"> <li>• 802.11b: +18.5dBm minimum</li> <li>• 802.11g: +17.5dBm minimum</li> <li>• 802.11a: +18.5dBm minimum</li> <li>• 802.11n HT20(2.4GHz): +15.5dBm minimum</li> <li>• 802.11n HT40(2.4GHz): +14.5dBm minimum</li> <li>• 802.11n HT20(5GHz): +15.5dBm minimum</li> </ul>

## Technical Specifications

	<ul style="list-style-type: none"> <li>• 802.11n HT40(5GHz): +14.5dBm minimum</li> <li>• 802.11ac VHT80(5GHz): +11.5dBm minimum</li> <li>• 802.11ac VHT160(5GHz): +11.5dBm minimum</li> </ul>
<i>Power Consumption</i>	<ul style="list-style-type: none"> <li>• Transmit mode: 2.0 W</li> <li>• Receive mode: 1.6 W</li> <li>• Idle mode (PSP) 180 mW (WLAN Associated)</li> <li>• Idle mode: 50 mW (WLAN unassociated)</li> <li>• Connected Standby/Modern Standby: 10 mW</li> <li>• Radio disabled: 8 mW</li> </ul>
<i>Power Management</i>	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
<i>Receiver Sensitivity</i> <sup>3</sup>	<p>802.11b, 1Mbps: -93.5dBm maximum</p> <p>802.11b, 11Mbps: -84dBm maximum</p> <p>802.11a/g, 6Mbps: -86dBm maximum</p> <p>802.11a/g, 54Mbps: -72dBm maximum</p> <p>802.11n, MCS07: -67dBm maximum</p> <p>802.11n, MCS15: -64dBm maximum</p> <p>802.11ac, MCS0: -84dBm maximum</p> <p>802.11ac, MCS9: -59dBm maximum</p>
<i>Antenna type</i>	<p>High efficiency antenna with spatial diversity, mounted in the display enclosure</p> <p>Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications</p>
<i>Form Factor</i>	PCI-Express M.2 MiniCard with CNVi Interface
<i>Dimensions</i>	<p>1. Type 2230: 2.3 x 22.0 x 30.0 mm</p> <p>2. Type 1216: 1.67 x 12.0 x 16.0 mm</p>
<i>Weight</i>	<p>1. Type 2230: 2.8 g</p> <p>2. Type 1216: 1.3 g</p>
<i>Operating Voltage</i>	3.3 v +/- 5%
<i>Temperature</i>	<p>Operating: 14° to 158° F (-10° to 70° C)</p> <p>Non-operating: -40° to 176° F (-40° to 80° C)</p>
<i>Humidity</i>	<p>Operating: 10% to 90% (non-condensing)</p> <p>Non-operating: 5% to 95% (non-condensing)</p>
<i>Altitude</i>	<p>Operating: 0 to 10,000 ft (3,048 m)</p> <p>Non-operating: 0 to 50,000 ft (15,240 m)</p>
<i>LED Activity</i>	<p>LED Amber – Radio OFF</p> <p>LED OFF – Radio ON</p>
<i>HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology</i>	
<i>Bluetooth Specification</i>	4.0/4.1/4.2/5.0 Compliant
<i>Frequency Band</i>	2402 to 2480 MHz
<i>Number of Available Channels</i>	<p>Legacy: 0~79 (1 MHz/CH)</p> <p>BLE: 0~39 (2 MHz/CH)</p>
<i>Signaling Data Rate</i>	<p>Legacy: 3 Mbps signaling data rate<sup>1</sup> 2.17 Mbps</p> <p>BLE: 1 Mbps signaling data rate 0.2 Mbps</p>

## Technical Specifications

### 1. Actual throughput may vary.

<i>Transmit Power</i>	<b>Legacy: Synchronous Connection Oriented links, 3,64 kbps, voice channels</b>
<i>Power Consumption</i>	<b>Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)</b> <b>The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.</b>
<i>Bluetooth Software Supported</i>	<b>Peak (Tx): 330 mW</b>
<i>Link Topology</i>	<b>Peak (Rx): 230 mW</b>
<i>Power Management</i>	<b>Selective Suspend: 17 mW</b>
<i>Certifications</i>	<b>Linux kernel version</b>
<i>Power Management Certifications</i>	<b>Intel CNVi/BRI HW power management</b>
<i>Bluetooth Profiles Supported</i>	<b>FCC (47 CFR) Part 15C, Section 15.247 &amp; 15.249</b> <b>ETS 300 328, ETS 300 826</b> <b>Low Voltage Directive IEC950</b> <b>UL, CSA, and CE Mark</b> <b>BT4.1-ESR 5/6/7 Compliance</b> <b>LE Link Layer Ping</b> <b>LE Dual Mode</b> <b>LE Link Layer</b> <b>LE Low Duty Cycle Directed Advertising</b> <b>LE L2CAP Connection Oriented Channels</b> <b>Train Nudging &amp; Interlaced Scan</b> <b>BT4.2 ESR08 Compliance</b> <b>LE Secure Connection- Basic/Full</b> <b>LE Privacy 1.2 –Link Layer Privacy</b> <b>LE Privacy 1.2 –Extended Scanner Filter Policies</b> <b>LE Data Packet Length Extension</b> <b>FAX Profile (FAX)</b> <b>Basic Imaging Profile (BIP)2</b> <b>Headset Profile (HSP)</b> <b>Hands Free Profile (HFP)</b> <b>Advanced Audio Distribution Profile (A2DP)</b>

1. Wireless access point and Internet service is required. Availability of public wireless access point is limited.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. 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).

## Technical Specifications

### POWER

<i>45 W PD AC adapter</i>	<i>Dimensions (H x W x D)</i>	<b>95 mm x 43 mm x 27.5 mm</b>
	<i>Weight</i>	<b>200 g +/-10%</b> <b>Not including power cord. Power cord varies by country</b>
	<i>Input</i>	<b>100 to 240 VAC</b>
	<i>Input Efficiency</i>	<b>Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:</b> <b>5V: 81.5%</b> <b>9V: 86.7%</b> <b>12V: 87.41%</b> <b>15V: 87.8%</b>
	<i>Input frequency range</i>	<b>47 ~ 63Hz</b>
	<i>Input AC current</i>	<b>Max. 1.4 A at 90 Vac</b>
	<i>Output</i>	<b>5V/15W</b> <b>9V/27W</b> <b>12V/36W</b> <b>15V/45W</b>
	<i>Output power</i>	<b>5V/9V/12V/15V</b>
	<i>DC output</i>	<b>5 ms at 115 Vac input</b>
	<i>Hold-up time</i>	<b>&lt;5.0 A by each outputs</b>
	<i>Output current limit</i>	<b>&lt;5.0 A by each outputs</b>
	<i>Connector</i>	<b>USB Type-C™</b>
	<i>Environmental Design</i>	<i>Operating temperature</i> <b>32°F to 95°F (0°C to 35°C)</b> <i>Non-operating (storage) temperature</i> <b>-4°F to 185°F (-20°C to 85°C)</b> <i>Altitude</i> <b>0 to 16,400 ft (0 to 5000m)</b> <i>Humidity</i> <b>20% to 95%</b> <i>Storage Humidity</i> <b>10% to 95%</b>
	<i>EMI and Safety Certifications</i>	<b>CE Mark - full compliance with LVD and EMC directives</b> <b>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.</b> <b>MTBF - over 200,000 hours at 25°C ambient condition.</b>
<i>HP 2-cell Long Life Li-Ion (47 Whr)</i>	<i>Dimensions (H x W x L)</i>	<b>5.2 x 240.8 x 76.4 mm (0.204 x 9.48 x 3 inch)</b>
	<i>Weight</i>	<b>0.19 kg (0.418 lb)</b>
	<i>Cells/Type</i>	<b>2cell Lithium-Ion Polymer cell / 4473A9</b>
	<i>Voltage</i>	<b>7.7 V</b>
	<i>Amp-hour capacity</i>	<b>6.15 Ah</b>
	<i>Watt-hour capacity</i>	<b>47.3 Wh</b>
	<i>Operating (Charging)</i>	<b>32° to 113° F (0° to 45° C)</b>
	<i>Operating (Discharging)</i>	<b>14° to 122° F (-10° to 60° C)</b>
	<i>Warranty</i>	<b>1-year</b>
	<i>Optional Travel Battery Available</i>	<b>No</b>

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

<i>Category</i>	<i>Description</i>	<i>Part Number</i>
<i>Cases</i>	<b>HP Business Slim Top Load</b>	<b>2SC65AA</b>
	<b>HP Black Always On Case 14"</b>	<b>3YF54AA</b>
	<b>HP Essential Top Load Case (Up to 15.6")</b>	<b>H2W17AA</b>
	<b>HP Essential Backpack (Up to 15.6")</b>	<b>H1D24AA</b>
<i>Docking</i>	<b>HP USB-C Travel Dock G2</b>	<b>7PJ38AA</b>
	<b>HP E24d G4 Advanced Docking monitor</b>	<b>6PA50AA</b>
	<b>HP E27d G4 Advanced Docking monitor</b>	<b>6PA56AA</b>
<i>Input/output</i>	<b>HP 3-Button Laser Mouse</b>	<b>H4B81AA</b>
	<b>HP Ultra Mobile Wireless Mouse</b>	<b>H6F25AA</b>
	<b>HP USB Optical Travel mouse</b>	<b>G1K28AA</b>
	<b>HP Essential USB Mouse</b>	<b>2TX37AA</b>
	<b>HP Stereo USB Headset</b>	<b>T1A67AA</b>
	<b>HP Stereo 3.5mm Headset</b>	<b>T1A66AA</b>
	<b>HP USB-C to DP</b>	<b>N9K78AA</b>
	<b>HP USB-C to HDMI 2.0 Adapter</b>	<b>1WC36AA</b>
	<b>HP USB-C to USB HUB</b>	<b>Z6A00AA</b>
	<b>HP USB to RJ45 Adapter</b>	<b>N7P47AA</b>
	<b>HP 4.5mm and USB-C Dock Adapter G2</b>	<b>6LX61AA/UT</b>
	<b>HP USB-C Travel Dock G2</b>	<b>7PJ38AA</b>
<i>Power</i>	<b>HP 45W USB-C G2 Power Adapter</b>	<b>1MZ01AA</b>
	<b>65W USB-C Slim Power adapter</b>	<b>3PN48AA</b>
	<b>HP Notebook USB-C Power Bank</b>	<b>2NA10AA</b>
<i>Storage</i>	<b>HP External USB Optical Drive</b>	<b>F2B56AA</b>
<i>Security</i>	<b>HP Nano Keyed Cable Lock</b>	<b>1AJ39AA</b>
	<b>HP Sure Key Cable Lock</b>	<b>6UW42AA</b>

## Summary of Changes

<i>Date of change:</i>	<i>Version History:</i>		<i>Description of change:</i>
<b>February 21, 2020</b>	<b>V1 to V2</b>	<b>Updated</b>	<b>Docking Section</b>
<b>March 17, 2020</b>	<b>V2 to V3</b>	<b>Updated</b>	<b>Accessories Section</b>
<b>May 06, 2020</b>	<b>V3 to V4</b>	<b>Added</b>	<b>Environmental Section</b>

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