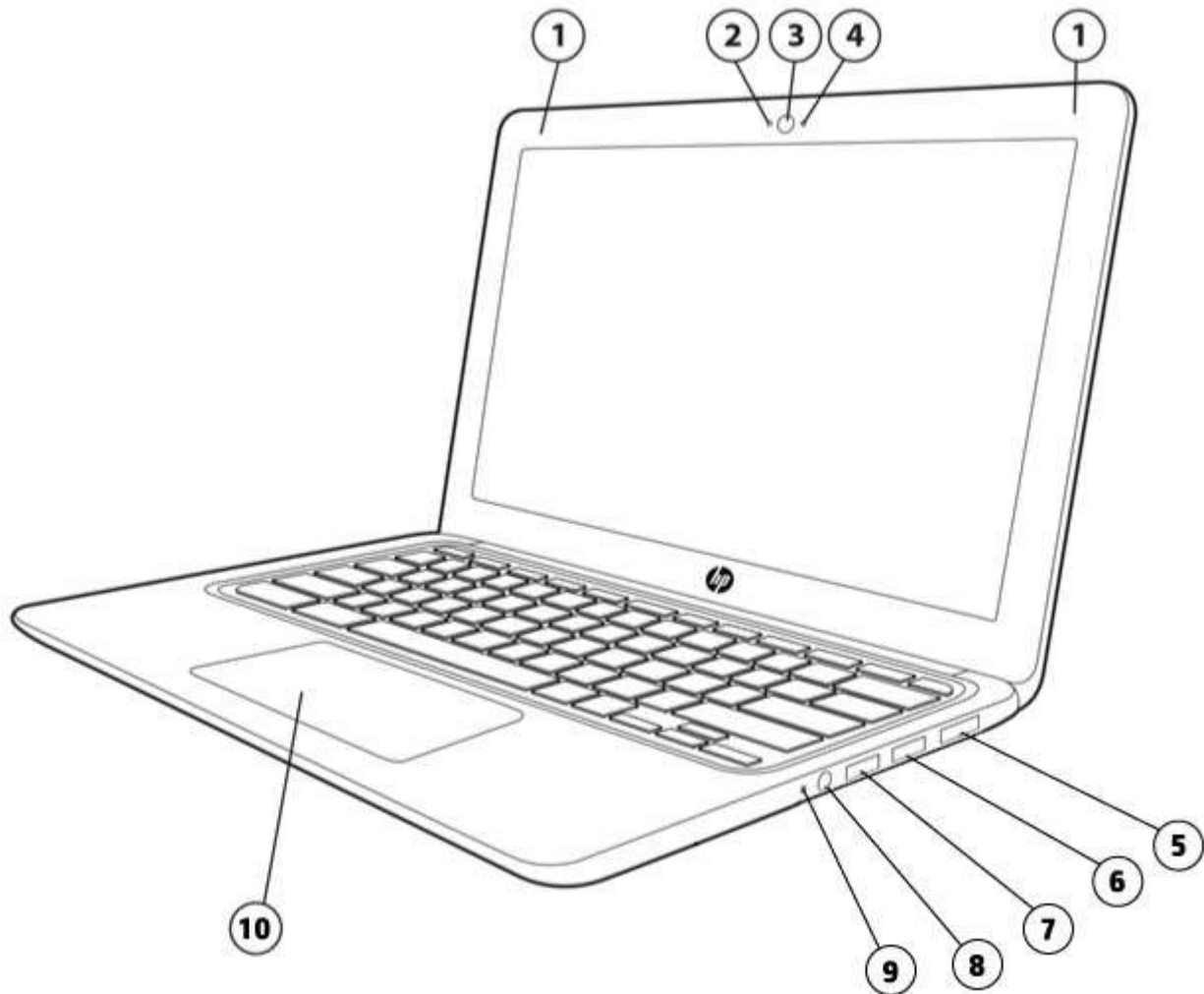


Overview

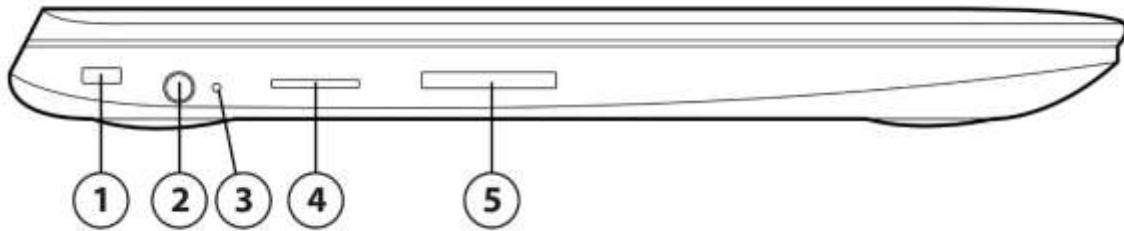
HP Chromebook 11 G4



Front Right View

- | | |
|------------------|------------------------------------|
| 1. WLAN antennas | 6. 3.0 USB charging port |
| 2. Microphone | 7. 2.0 USB port |
| 3. Webcam lens | 8. Headphone/Microphone combo jack |
| 4. Webcam LED | 9. Power LED |
| 5. HDMI | 10. Touch pad |

Overview



Left View

1. Security lock slot
2. AC Smart Pin adapter plug (4.5mm barrel)
3. AC Plug LED
4. SIM Card slot (WWAN models only)
5. Media Card reader

Overview

AT A GLANCE

- Make any space your office with the lightweight and mobile Chromebook 11G4
- 11.6" diagonal HD LED Anti-glare (1366x768) Display or 11.6" HD IPS Anti-glare (1366x768) Display (available late July 2015)
- Starting weight at 2.83 lbs. (1.28 kg) keeps you productive on the go without weighing down your bag or taking up space.
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later.
- Enjoy affordable, convenient mobile productivity with Intel® processors.
- Up to 9 hours and 30 minutes of battery life to comfortably last the entire school day.
- Available LTE/HSPA+ WWAN connectivity allows you to stay productive wherever work takes you.
- Working on a Chromebook is fast, smooth and intuitive, whether you're writing a document, sending an email or browsing the internet. Chrome OS™ provides a maintenance-free experience with automatic software and security updates.
- Chromebooks come with your favorite Google products built-in so you can work, play and do whatever you want, right out of the box. And the growing Chrome Web Store offers thousands of free apps, themes, and extensions to help you make the most of your Chromebook - including customized apps and extensions for education and business environments.
- Enjoy your Chromebook experience even more with Bluetooth 4.0 connectivity to your wireless keyboard and mouse
- Store up to 100 GB of your files and content with complimentary Google Drive. Your own virtual hard drive is available anywhere the Internet is accessible with this complimentary two year promotion.
- Purchase with confidence with a limited 1-year warranty and 3-year extended service available with optional HP Care Services.

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



Features

PRODUCT NAME

HP Chromebook 11 G4

OPERATING SYSTEM

Preinstalled Chrome OS™

PROCESSOR

Intel® Celeron® N2840, (2.16 GHz, Turbo up to 2.58 GHz, 1 MB 1333 MHz L2 cache, 2 cores)

* Multi-Core is designed to improve performance of certain software products. Not all customers or software apps may benefit from use of this technology. 64-bit computing system required. Performance will vary depending on your hardware and software. Intel's numbering is not a measurement of clock speed.

CHIPSET

Integrated SoC PCH

GRAPHICS

Intel® HD Graphics

- Support HD Decode, DX11, and HDMI

DISPLAY

Internal

11.6" diagonal HD¹ IPS AntiGlare (1366x768) LED Slim (3.0mm), UWVA 220 nits, eDP (available late July 2015)

11.6" diagonal HD¹ WLED AntiGlare (1366x768) Flat (3.6mm), SVA 220 nits, eDP

External

HDMI v1.4b Supporting: up to 1920x1080 @ 60Hz

1. High definition content is required to view high-definition images.

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

STORAGE AND DRIVES

Support eMMC

16 GB

32 GB

Embedded Multi Media Card¹

Store up to 100 GB with Google Drive (2-year subscription included)²

1. 5.1 GB of the eMMC are dedicated/allocated to the Chrome OSTM partition.
2. 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



Features

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>

MEMORY

Standard

DDR3L-1600 Single Channel (Transfer rates up to 1600 MT/s) for 2 GB Memory

DDR3L-1600 Dual Channel(Transfer rates up to 1600 MT/s) for 4 GB Memory

Support

Up to 4 GB max on-board system memory

2 GB (2 GB x 16 x 4 pcs)

4 GB (2 GB x 16 x 8 pcs)

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)

Intel® Dual Band Wireless-AC 7260 802.11 ac (2x2) WiFi + Bluetooth 4.0 Combo¹

Intel® Dual Band Wireless-N 7260AN 802.11 a/b/g/n (2x2) WiFi + Bluetooth 4.0 Combo¹

1. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.

Internal Card Expansion

One M.2 slot for WLAN

One M.2 slot for WWAN

AUDIO/MULTIMEDIA

Audio

High Definition Audio

Dual speakers

Headphone / Microphone Combo Jack

One digital microphone with echo cancellation and noise suppression

appropriate software

Webcam¹

HP TrueVision HD²

- HD² camera - Fixed (no tilt) + activity LED, USB 2.0, M-JPEG
- 1280 x 720 by 30 frames per second
- Single Digital Microphones w/ appropriate software - echo cancellation, noise suppression

1. Internet access required and not included.
2. High definition content is required to view high-definition images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

The black, textured, island-style Chrome OS™ keyboard features full-pitch key layout with features such as isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. International key



Features

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.

Pointing Devices

Clickpad with multitouch gestures enabled
Taps enabled as default

Buttons and Function Keys

Power key, Search key, Back, Forward, Refresh, Full Screen, Switch window

SOFTWARE AND SECURITY

Preinstalled Software

Chrome OS™ and its default set of apps

Security

Trusted Platform Module (TPM) 1.2
Lock slot
Optional UltraSlim Kensington Security Lock (Sold separately)

POWER

Power Supply

HP 45W Smart AC Adapter¹
Power cord is 3.2 feet (1.0 meter)
Total length including external AC adapter is 9.2 feet (2.86 meter)

1. AC adapter uses a 90 degree 4.5mm DC plug

Primary Battery

3-cell (36 WHr) Lithium-Ion Polymer Long-Life battery

Battery Life

Up to 9 hours and 30 minutes on 2 GB Memory WiFi model with 3-cell (36 WHr)
Up to 8 hours and 30 minutes on 4 GB Memory WiFi/WWAN model with 3-cell (36 WHr)
Note: 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: Battery is internal and not replaceable by customer.

WEIGHTS & DIMENSIONS

Weight

Starting at 2.83 lbs (1.28 kg)

Dimensions (w x d x h)

11.80 x 8.09 x 0.80 in (Rear)
300 x 205.7 x 20.45 mm (Rear)



Features

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

PORTS/SLOTS

Ports

AC Smart Pin adapter plug (4.5mm barrel) – One

Headphone/Microphone combo jack – One

USB 3.0 – One (right side, Charging Port)

USB 2.0 – One (right side)

HDMI v1.4b – One

HP Multi-Format Digital Media Card Reader

Support SD/SDHC/SDXC up to UHS-50

Push-Push Insertion/Removal

SERVICE AND SUPPORT

HP 1 year limited warranty. 1 year limited warranty on primary battery. On-site service and optional extended service contracts are also available. Optional¹ HP Services² are extended service contracts which go beyond your standard limited warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

1. Sold separately or as an optional feature.
2. 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. 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. 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>.



Technical Specifications

SYSTEM UNIT

| | | |
|--|---|--|
| Stand-Alone Power Requirements (AC Power) | Nominal Operating Voltage | 19.5 V |
| | Average Operating Power | 27 W |
| | Max Operating Power | < 45 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 | UL | Yes |
| Certifications | CSA | No |
| | FCC Compliance | Yes |
| | ENERGY STAR® | Yes |
| | EPEAT | Yes |
| | ICES | Yes |
| | Australia / NZ A-Tick Compliance | Yes, called RCM |
| | CCC | No |
| | Japan VCCI Compliance | Yes |
| | KC | No |



Technical Specifications

| | |
|--|-----------------------|
| BSMI | Yes |
| CE Marking Compliance | Yes |
| BNCI or BELUS | Yes, called EAC or CU |
| CIT | TBD |
| GOST | Yes, called EAC or CU |
| Saudi Arabian Compliance (ICCP) | No |
| SABS | No |
| UKRSERTCOMPUTER | No |

DISPLAY

11.6" diagonal HD IPS Anti-Glare (1366x768) LED Slim (3.0mm), UWVA

| | | |
|--|----------------------------|------------|
| Outline Dimensions (W x H x D) | 278.5 x 168.5 x 3.0mm max. | |
| Active Area | 256.125 x 144.0mm typ. | |
| Weight | 200g max. | |
| Diagonal Size | 11.6 inch | |
| Contrast Ratio | 600:1 | |
| Refresh Rate | 60Hz | |
| Brightness | 220nits typ. | |
| Pixel Resolution | Format | 1366 x 768 |
| | Configuration | RGB Stripe |
| Interface | eDP | |
| LCD Mode | IPS | |



Technical Specifications

| | | | |
|---|---------------------------------------|----------------------------|------------|
| | PPI | 135 | |
| | Viewing Angle | 85/85/85/85 | |
| 11.6" diagonal HD WLED Anti-Glare (1366x768) flat (3.6mm), SVA | Outline Dimensions (W x H x D) | 278.5 x 168.5 x 3.6mm max. | |
| | Active Area | 256.125 x 144.0mm typ. | |
| | Weight | 235g max. | |
| | Diagonal Size | 11.6 inch | |
| | Contrast Ratio | 300:1 | |
| | Refresh Rate | 60Hz | |
| | Brightness | 220nits typ. | |
| | Pixel Resolution | Format | 1366 x 768 |
| | Pixel Resolution | Configuration | RGB Stripe |
| | Interface | eDP | |
| | LCD Mode | TN | |
| | PPI | 135 | |
| | Viewing Angle | 40/40/15/30 | |

AUDIO/MULTIMEDIA

| | | |
|-----------------|-------------------------------------|---|
| Hardware | Implementation | MAX98090 Ultra-Low Power Stereo Audio Codec |
| | Function Key Volume Controls | Volume up, volume down, and mute |
| | Full Duplex | Yes |



Technical Specifications

| | | |
|-----------------------------|--|--------------------------------|
| | Microphone In | Mono |
| | Headphone/Line Out | Stereo |
| | Integrated Microphone | Yes, single digital microphone |
| Audio Output Quality | Frequency Response | 20 Hz - 20 kHz |
| | Total Harmonic Distortion + Noise | -73 dB (Typ.) |
| | Noise Floor | -120 dB |
| | Play/Record Sampling Rate(s) | 8 kHz - 96kHz |
| | DAC | 16, 20 or 24-bit |
| | ADC | 16 or 20-bit |
| | | Power Rating |
| | Impedance | 4 ohms |

POWER

HP 45W Smart AC Adapter

| | | |
|-------------------|---|--------------------------------------|
| Dimensions | 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm) | |
| Weight | 0.386 lb (175g) max | |
| | 90 to 265 VAC | |
| Input | Input Efficiency | 87.74% at 115Vac and 88.4% at 230Vac |
| | Input frequency range | 47 to 63 Hz |
| | Input AC current | 1.4 A at 90 VAC |
| | Output power | 45W |
| Output | DC output | 19.5V |
| | Hold-up time | 5 msec at 115 VAC input |



Technical Specifications

| | | |
|--------------------------------------|---|-------------------------------|
| | Output current limit | <8.0A |
| | Over voltage protection | < 29V max automatic shutdown |
| | Over short protection | Auto-recovery and no damage |
| Connector | 3 pin/grounded, mates with interchangeable cords | |
| | Operating temperature | 32° to 95° F (0° to 35° C) |
| | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |
| Environmental Design | Altitude | 0 to 16,400 ft (0 to 5,000 m) |
| | Humidity | 20% to 95% |
| | Storage Humidity | 10% to 95% |
| EMI and Safety Certifications | <p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* 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.</p> <p>* MTBF - over 200,000 hours at 25°C ambient condition.</p> | |

HP 65W EM Smart AC Adapter

| | | |
|-------------------|--|--------------------------------------|
| Dimensions | 4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm) | |
| Weight | 0.62 lb (290g) max | |
| | 90 to 265 VAC | |
| Input | Input Efficiency | 87.74% at 115Vac and 88.4% at 230Vac |
| | Input frequency range | 47 to 63 Hz |
| | Input AC current | 1.7 A at 90 VAC |
| | Output power | 65W |
| Output | DC output | 19.5V |
| | Hold-up time | 5 msec at 115 VAC input |
| | Output current limit | <11.0A |



Technical Specifications

| | | |
|--------------------------------------|---|---|
| | Over voltage protection | < 29V max automatic shutdown |
| | Over short protection | Auto-recovery and no damage |
| Connector | 3 pin/grounded, mates with interchangeable cords | |
| | Operating temperature | 32° to 95° F (0° to 35° C) |
| Environmental Design | Non-operating (storage) temperature | -4° to 185° F (-20° to 85° C) |
| | Altitude | 0 to 16,400 ft (0 to 5,000 m) |
| | Humidity | 20% to 95% |
| | Storage Humidity | 10% to 95% |
| EMI and Safety Certifications | <p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* 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.</p> <p>* MTBF - over 200,000 hours at 25°C ambient condition.</p> | |
| HP 3-cell battery (36Whr) | Dimensions (H x W x L) | 5.9mm x 83.3mm x 281mm |
| | Weight (max) | 200g |
| | Cells/Type | Li-ion, Prismatic Cell 496080/485780 |
| | Energy | Voltage 10.8V ~ 11.4V |
| | | Amp-hour capacity 3080mAh ~ 3400mAh (Min.) 3250mAh ~ 3490mAh (Typ.) |
| | | Watt-hour capacity 35Wh ~ 36.7Wh (Min.) 37Wh ~ 37.6Whr (Typ.) |
| | Temperature | Operating (Charging) 0° to 45° C |
| | | Operating (Discharging) -10° to 60° C |



Technical Specifications

| | | |
|--|--------------------------------------|------------------------|
| | Non-operating | -20° ~ 60° C (1 month) |
| | | -20° ~ 45° C (3 month) |
| | | -20° ~ 30° C (6 month) |
| Battery Re-Charge Time | System in OFF or Standby Mode | ~2.25hrs |
| | System ON | ~3.25hrs |
| Fuel Gauge LED | No | |
| Warranty | 1 year | |
| Compatible with optional Travel Battery | No | |

ENVIRONMENTAL

TBD

COUNTRY OF ORIGIN

China



Summary of Changes

| Type | Description | Part Number |
|------------------------|--|-----------------------------------|
| Protective Case | HP Chromebook 11 Protective Cover | M5N98AA |
| Carrying Case | HP Business Slim Top Load HP Essential Top Load Case (up to 15.6") HP Essential Backpack (up to 15.6") | H5M90AA H2W17AA#xxx H1D24AA |
| Input/Output | HP 3-Button Laser Mouse HP Ultra Mobile Wireless Mouse HP USB Optical Travel mouse | H4B81AA#xxx H6F25AA G1K28AA |
| Adapter | HP HDMI to VGA Adapter HP USB Ethernet Adapter | H4F02AA XZ613AA |
| Power | HP 45W Smart AC Adapter (4.5mm) | H6Y88AA#xxx |
| Cable Lock | HP Ultralim Keyed Cable Lock | H4D73AA |

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