

### Overview

#### HP Chromebook 11 G6 EE



- 1. Webcam LED
- 2. Webcam
- 3. Internal microphone
- 4. Touchpad

#### Right

- 5. USB 3.1 Gen 1
- 6. USB Type-C™
- 7. Nano Security lock slot (Lock sold separately.)

### Overview



1. USB Type-C™
2. USB 3.1 Gen 1
3. Micro SD Card Reader

#### Left

4. Audio combo jack

### Overview

#### AT A GLANCE

- 19 mm thin and rugged design for durability
- Enjoy affordable, convenient mobile productivity with latest Intel® Celeron® processor
- Designed to pass MIL STD 810G tests<sup>1</sup>
- 2 USB-C™ ports for charging, power and data transfer, and 2 USB 3.1 Gen 1 ports for sleep and charge support
- Choice of up to 8 GB memory and 64 GB eMMC storage
- Spill and pick resistant keyboard
- Long battery life
- 180 degree hinge and optional HD IPS Touchscreen for easy collaboration
- Enjoy Android™ Apps\* on Chrome OS™<sup>2</sup>
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later
- Store up to 100 GB of your files and content with Google Drive. Your own virtual hard drive is available anywhere the Internet is accessible with this complimentary two year promotion<sup>3</sup>

1. MIL STD 810G testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

2. The availability of Chrome OS System supporting Android Apps is dependent on Google's Chrome OS support, readiness timeline will be announced by Google <https://sites.google.com/a/chromium.org/dev/chromium-os/chrome-os-systems-supporting-android-apps>

3. 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 OSTM 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>

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

### Features

#### PRODUCT NAME

HP Chromebook 11 G6 EE

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#### OPERATING SYSTEM

**Preinstalled**  
Chrome OS™

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#### PROCESSOR

Intel® Celeron® N3350 with Intel® HD Graphics 500 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 2 MB cache, 2 cores)<sup>4,5</sup>

Intel® Celeron® N3450 with Intel® HD Graphics 500 (1.1 GHz base frequency, up to 2.2 GHz burst frequency, 2 MB cache, 4 cores)<sup>4,5</sup>

**Processor Family**  
Intel® Celeron® processor

4. 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 is not a measurement of higher performance.  
5. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

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#### CHIPSET

Integrated with processor

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#### GRAPHICS

Intel® HD Graphics 500<sup>6</sup>

6. HD content required to view HD images.

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### Features

#### DISPLAY

##### Internal

##### Non-Touch

29.46 cm (11.6") diagonal HD SVA anti-glare WLED-backlit, 220 cd/m<sup>2</sup>, 72% sRGB (1366 x 768)<sup>7,8</sup>

29.46 cm (11.6") diagonal HD UWVA anti-glare WLED-backlit, 220 cd/m<sup>2</sup>, 72% sRGB (1366 x 768)<sup>7,8,9</sup>

##### Touch

29.46 cm (11.6") diagonal HD IPS BrightView WLED-backlit touch screen, 220 cd/m<sup>2</sup>, 72% sRGB (1366 x 768)<sup>7,8,10</sup>

##### Display Size

11.6"

29.46 cm (11.6")

7. HD content required to view HD images.

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

9. Planned to be available in mid-April

10. Sold separately or as an optional feature.

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#### STORAGE AND DRIVES

##### Primary Storage

16 GB eMMC 5.0<sup>11</sup>

32 GB eMMC 5.0<sup>11</sup>

64 GB eMMC 5.0<sup>11</sup>

11. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. 5.1 GB of the eMMC are dedicated/allocated to the Chrome OSTM partition.

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#### MEMORY

##### Maximum Memory

8 GB LPDDR4-2400 SDRAM

##### Memory soldered down

8 GB LPDDR4-2400 SDRAM

4 GB LPDDR4-2400 SDRAM

### Features

#### NETWORKING/COMMUNICATIONS

##### WLAN

Intel® Dual Band Wireless-AC 7265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™ 12  
Integrated with dual antennas.

##### Miracast

Native Miracast Support<sup>13</sup>

12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

13. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

#### AUDIO/MULTIMEDIA

##### Audio

HD Audio  
Dual speakers  
Integrated microphone

##### Camera

720p HD camera<sup>14</sup>

14. HD content required to view HD images.

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

##### Keyboard

Full-sized island-style, spill resistant, pick resistant  
Optional Full-sized island-style, backlit, spill resistant, pick resistant

##### Pointing Device

Touchpad with multi-touch gestures enabled. Taps enabled as default

#### SOFTWARE AND SECURITY

Store up to 100 GB with Google Drive (2-year subscription included)<sup>15</sup>  
HP Classroom Manager

##### Security Management

H1 Security IC  
Nano Security lock slot<sup>16</sup>

15. 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>

16. Lock must be purchased separately.

### Features

#### POWER

**Power Supply**

45 W USB Type-C™ straight type AC adapter

**Primary Battery**

HP Long Life 2-cell, 47.36 Wh Li-ion<sup>17</sup>

**Battery Life**

13 hrs (non-touch)

11 hrs (touch)

**Power Cord**

Minimum 2.6M length USB-C™/power cord

17. Battery is internal and not replaceable by customer. Serviceable by warranty.

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#### WEIGHTS & DIMENSIONS

**Weight**

Starting at 2.27 lb<sup>18</sup>

Starting at 1.24 kg<sup>18</sup>

**Dimensions** (w x d x h)

12.04 x 8.18 x 0.71 in

30.6 x 20.8 x 18.05 cm

18. Weight will vary by configuration.

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#### PORTS/SLOTS

**Ports**

2 USB 3.1 Type-C™

2 USB 3.1 Gen 1 (Sleep and Charge support)

1 Headphone/microphone combo jack

**Expansion Slots**

1 micro SD (multi-format digital media reader)

Supports SD, SDHC, SDXC

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#### SERVICE AND SUPPORT

HP Services offers a 1-year limited warranties and 90 day support options depending on country. Batteries have a default one year limited warranty. 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>19</sup>

19 .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 [www.hp.com/go/cpc](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.

## Technical Specifications

**DISPLAYS****11.6 inches HD AG WLED UWVA 45% NTSC 220 nits eDP Slim**

<b>Active Area</b>	256.125 x 144 mm
<b>Weight</b>	210g max
<b>Diagonal Size</b>	11.6 (inch)
<b>Thickness</b>	eDP1.2
<b>Interface</b>	Anti-glare (AG)
<b>Surface Treatment</b>	AG
<b>Touch Enabled</b>	None
<b>Contrast Ratio</b>	400:1 (typical)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nit typical (panel only)
<b>Pixel Resolution</b>	1366x768 (HD)
<b>Format</b>	RGB
<b>Backlight</b>	LED
<b>Color Gamut Coverage</b>	0.45
<b>Color Depth</b>	6 bits
<b>Viewing Angle</b>	SVA 45/45/15/35

**11.6 inches HD AG WLED SVA 45% cg 220 nits eDP Slim**

<b>Outline Dimensions</b> (W x H x D)	278.5 x 168.5 mm(max)
<b>Active Area</b>	256.125 x 144 mm
<b>Weight</b>	210g max
<b>Diagonal Size</b>	11.6 (inch)
<b>Thickness</b>	eDP1.2
<b>Interface</b>	Anti-glare (AG)
<b>Surface Treatment</b>	AG
<b>Touch Enabled</b>	None
<b>Contrast Ratio</b>	400:1 (typical)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nit typical (panel only)
<b>Pixel Resolution</b>	1366x768 (HD)
<b>Format</b>	RGB
<b>Backlight</b>	LED
<b>Color Gamut Coverage</b>	0.45
<b>Color Depth</b>	6 bits
<b>Viewing Angle</b>	SVA 45/45/15/35

**11.6 inches HD (1366x768) BrightView WLED UWVA 50% cg 220 nits eDP 1.2 w/o PSR slim TOP**



### Technical Specifications

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<b>Outline Dimensions</b> (W x H x D)	278.5 x 168.5 mm(max)
<b>Active Area</b>	256.125 x 144 mm
<b>Weight</b>	200g max
<b>Diagonal Size</b>	11.6 (inch)
<b>Thickness</b>	3.0 mm for body, 3.2 mm for PCBA (max)
<b>Interface</b>	eDP1.2
<b>Surface Treatment</b>	Glare (BV)
<b>Touch Enabled</b>	Yes
<b>Contrast Ratio</b>	800:1 (typical)
<b>Refresh Rate</b>	60Hz
<b>Brightness</b>	220 nit typical (panel only)
<b>Pixel Resolution</b>	1366x768 (HD)
<b>Format</b>	RGB
<b>Backlight</b>	LED
<b>Color Gamut Coverage</b>	0.5
<b>Color Depth</b>	6 bits
<b>Viewing Angle</b>	SVA 45/45/15/35

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## Technical Specifications

**NETWORKING****Intel® Dual Band Wireless-AC 7265 802.11 ac (2x2) WiFi + Bluetooth® 4.2 Combo(non-vPro, Non-UNII D1)**

<b>Wireless LAN Standards</b>	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
<b>Frequency Band</b>	802.11b/g/n • 2.402 – 2.482 GHz 802.11a/n • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz
<b>Data Rates</b>	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)
<b>Modulation</b>	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
<b>Security</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 • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
<b>Network Architecture</b>	Ad-hoc (Peer to Peer)
<b>Models</b>	Infrastructure (Access Point Required)
<b>Roaming</b>	IEEE 802.11 compliant roaming between access points
<b>Output Power</b>	• 802.11b : +14dBm minimum • 802.11g : +12dBm minimum • 802.11a : +12dBm minimum • 802.11n HT20(2.4GHz) : +12dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +10dBm minimum • 802.11n HT40(5GHz) : +10dBm minimum • 802.11ac VHT80(5GHz) : +10dBm minimum
<b>Power Consumption</b>	• Transmit mode 2.0 W • Receive mode 1.6 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby 10mW • Radio disabled 8 mW
<b>Power Management</b>	ACPI and PCI Express compliant power management

### Technical Specifications

<b>Receiver Sensitivity</b>	802.11 compliant power saving mode 802.11b, 1Mbps : -93.5dBm maximum 802.11b, 11Mbps : -84dBm maximum 802.11a/g, 6Mbps : -86dBm maximum 802.11a/g, 54Mbps : -72dBm maximum 802.11n, MCS07 : -67dBm maximum 802.11n, MCS15 : -64dBm maximum 802.11ac, MCS0 : -84dBm maximum 802.11ac, MCS9 : -59dBm maximum
<b>Antenna type</b>	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	Type 2230 : 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	Type 2230 : 2.8g
<b>Operating Voltage</b>	3.3v +/- 9%
<b>Temperature</b>	Operating: 14° to 158° F (-10° to 70° 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 Amber – Radio 0 to 10,000 ft (3,048 m) OFF; LED White – Radio 0 to 50,000 ft (15,240 m) ON

#### HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

<b>Bluetooth Specification</b>	4.0/4.1/4.2 Compliant
<b>Frequency Band</b>	2402 to 2480 MHz
<b>Number of Available Channels</b>	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
<b>Data Rates and Throughput</b>	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
<b>Transmit Power</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>Power Consumption</b>	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
<b>Electrical Interface</b>	USB 2.0 compliant
<b>Bluetooth Software Supported Link Topology</b>	Microsoft Windows Bluetooth Software

### Technical Specifications

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<b>Power Management</b>	Microsoft Windows ACPI, and USB Bus Support
<b>Certifications</b>	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
<b>Power Management</b>	ETS 300 328, ETS 300 826
<b>Certifications</b>	Low Voltage Directive IEC950
<b>Bluetooth Profiles</b>	UL, CSA, and CE Mark
<b>Supported</b>	BT4.1-ESR 5/6/7 Compliance
	LE Link Layer Ping
	LE Dual Mode
	LE Link Layer
	LE Low Duty Cycle Directed Advertising
	LE L2CAP Connection Oriented Channels
	Train Nudging & Interlaced Scan
	BT4.2 ESR08 Compliance
	LE Secure Connection- Basic/Full
	LE Privacy 1.2 –Link Layer Privacy
	LE Privacy 1.2 –Extended Scanner Filter Policies
	LE Data Packet Length Extension
	FAX Profile (FAX)
	Basic Imaging Profile (BIP)2
	Headset Profile (HSP)
	Hands Free Profile (HFP)
	Advanced Audio Distribution Profile (A2DP)

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### Technical Specifications

#### POWER

##### HP 45W USB-C AC adapter

**Dimensions** 94.0mm\*40.0mm\*26.5mm

**Weight** 192.5g +/-10%

		100 to 240 VAC
		Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:
<b>Input</b>	<b>Input Efficiency</b>	5V : 81.5%
		9V: 86.7
		12V : 87.8%
		15V : 87.8%
	<b>Input frequency range</b>	47 ~ 63Hz
	<b>Input AC current</b>	Max. 1.4 A at 90 Vac
<b>Output</b>	<b>Output power</b>	5V/15W ; 9V/27W 12V/36W ; 15V/45W
	<b>DC output</b>	5V/9V/12V/15V
	<b>Hold-up time</b>	5ms at 115 Vac input
	<b>Output current limit</b>	<5.0A
	<b>Connector</b>	USB Type-C
	<b>Operating temperature</b>	32°F to 95°F (0°C to 35°C)
	<b>Non-operating (storage) temperature</b>	-4°F to 185°F (-20°C to 85°C)
<b>Environmental Design</b>	<b>Altitude</b>	0 to 16,400 ft (0 to 5000m)
	<b>Humidity</b>	20% to 95%
	<b>Storage Humidity</b>	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

#### COUNTRY OF ORIGIN

China

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

Type	Description	Part number
<b>Cases</b>	HP Black 11.6 Always On Case	H5M90AA
	HP Essential Backpack	F3W15AA
	HP Essential Top Load Case	H2W17AA#xxx
<b>Docking</b>	HP USB-C Universal Dock	1MK33AA
	HP USB-C Mini Dock	1PM64AA
	HP Elite USB-C Dock G3	Z9R42AA
	HP USB-C to USB HUB	Z6A00AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to DP	N9K78AA
	HP USB-C to RJ45 Adapter	V7W66AA
	HP USB Optical Travel mouse	G1K28AA
<b>Input/Output</b>	HP Essential USB Mouse	2TX37AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Notebook USB-C Power Bank	2NA10AA
<b>Power</b>	HP 45W USB-C G2 Power Adapter	1MZ01AA#ABA
<b>Storage</b>	HP External USB Optical Drive	F2B56AA
<b>Security</b>	HP Nano Keyed Cable Lock	1AJ39AA
<b>Displays</b>	HP ProDisplay P240va 23.8 inch Monitor	N3H14AA
	HP ProDisplay P232 23 inch Monitor	K7X31AA
	HP EliteDisplay E223 21.5 inch Monitor	1FH45AA

### Summary of Changes

Date of change	Version History	Change	Description of change
December 21, 2017	V1 to V2	Change	Power cord length changed to 2.6m
January 9, 2018	V2 to V3	Added	OPTIONAL Full-size island-style, backlit, spill and pick resistant keyboard
January 16, 2018	V3 to V4	Added	Battery Life
February 14, 2018	V4 to V5	Update	Display section updated
February 23, 2018	V5 to V6	Update	11.6" IPS panel added to displays section

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