

Overview

HP Fortis x360 11 inch G3 J Chromebook



Left

- | | |
|--|---|
| 1. Webcam LED | 8. Volume Button |
| 2. Webcam | 9. Power Light |
| 3. Internal Microphone | 10. Power Button |
| 4. Touchpad | 11. SuperSpeed USB Type-A 5Gbps signaling rate |
| 5. Microphone (Optional) | 12. SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data) |
| 6. Auto-Focus 5MP Rear Camera with single mic (World Facing secondary camera) (Optional) | 13. Nano Security LockSlot |
| 7. Webcam LED (Optional) | |

Overview



Right

- | | |
|--|---|
| 1. Lock Key | 3. SuperSpeed USB Type-A 5Gbps signaling rate |
| 2. SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data) | 4. Stereo Headphone/Microphone Combo Jack |

Overview



Overview

AT A GLANCE

- Corning® Gorilla® Glass 3 damage-resistant touchscreen.
- Enjoy affordable, convenient mobile productivity with Intel® Celeron® N4500, N5100, and Pentium® N6000 processors
- Undergoes MIL-STD 810H tests ¹
- 2 SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data)
- Choice of up to 8GB memory and 64GB eMMC storage
- Spill and pick resistant keyboard with Full Skirted anchored key
- Spend less time charging with HP Fast Charge technology
- Flexible 360°hinge supports laptop, tablet, tent or media mode with 2nd Auto-Focus 5MP world-facing camera (Optional)
- Purchase, deploy and manage apps
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in just moments later²
- Intel® Wi-Fi 6 AX 2x2 WLAN with MU-MIMO and HP Extended Range Wireless LAN for stable connection in dense environment
- Keyboard that can be repeatedly wiped down with common household cleaning wipes ³
- Easy for small hands to grip and handle with Unique textured surface

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

2. Boot up speed varies depending on device.

3. The chassis, ports, keyboards and displays the HP Chromebook x360 11 G4 EE, HP Chromebook x360 11MK G3 EE, HP Chromebook 11 G9 EE, HP Chromebook 11MK G9 EE, HP Chromebook 14 G7 and the HP ProBook x360 11 G7 EE have been tested to 1,000 wipes with Windex® Original Glass & Surface Wipes and Clorox® Disinfecting Wipes with EPA Registration Number 5813-79. See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper (<http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW>).

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

Technical Specifications

PRODUCT NAME

HP Fortis x360 11 inch G3 J Chromebook

OPERATING SYSTEM

Preinstalled ChromeOS

PROCESSORS

Processor ^{1,2,3,4}	Cores	Threads	L3 Cache	Max Frequency		Base Frequency
				1-core and 2-core burst	3-core and 4-core burst	
Intel® Pentium® Silver N6000	4	4	4 MB	3.3 GHz	3.1 GHz	1.1 GHz
Intel® Celeron® N5100	4	4	4 MB	2.8 GHz	2.8 GHz	1.1 GHz
Intel® Celeron® N4500	2	2	4 MB	2.8 GHz	N/A	1.1 GHz

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.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics ³

Supports

Support HD decode, DX12, HDMI

3. HD content required to view HD images.

Technical Specifications

DISPLAY

Touch

29.46 cm (11.6") diagonal HD IPS eDP BrightView WLED-backlit TOP+ touch screen with Corning® Gorilla® Glass 3, 220 nits, 50% NTSC (1366 x 768) ^{4,5,6}

Displays support

Support extended displays through HP docks

Display Size (Diagonal)

11.6"

29.46 cm

4. FHD/HD content required to view HD images.

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

6. Actual brightness will be lower with touchscreen or HP Sure View.

DOCKING (Sold Separately)

Docking station model #1

HP USB-C/A Universal Dock G2

[For additional aftermarket options and docking specs please see page 23.](#)

STORAGE AND DRIVES

Primary Storage

64 GB eMMC 5.0

32 GB eMMC 5.0

7. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.3 GB is not user available.

Technical Specifications

MEMORY

Maximum Memory

8 GB LPDDR4X -4266 MT/s SDRAM ⁸

Memory

8 GB LPDDR4X -4266 MT/s SDRAM ⁸

4 GB LPDDR4X -4266 MT/s SDRAM ⁸

Memory Slots

Memory soldered on board ⁸

8. All slots are non-accessible / non-upgradeable.

NETWORKING/COMMUNICATIONS

WLAN

Intel® Wi-Fi CERTIFIED® 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro® ⁹

MU-MIMO supported

HP Extended Range WLAN supported

Chromecast

Chromecast Support ¹⁰

9. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs.

10. Chromecast must be purchased separately. Google and Chromecast are trademarks of Google LLC.

AUDIO/MULTIMEDIA

Audio

HD audio

Dual 2W stereo speakers

Integrated dual microphones

Speaker Power

2W/4ohm Per speaker

Camera

720p HD camera ¹¹

Auto-Focus 5MP Rear Camera (World Facing secondary camera)

Sensors

Accelerometer + Gyroscope

11. HD content required to view HD images.

Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard











Full-size island-style Chromebook keyboard, spill resistant with HP Full-Skirted Anchored Key

Pointing Device

Clickpad with multi-touch gesture support

Taps enabled as default

Function Keys

-  Back
-  Forward
-  Reload
-  Full Screen
-  Display Apps
-  Brightness Down
-  Brightness Up
-  Mute
-  Volume Down
-  Volume Up

SOFTWARE AND SECURITY

Manageability Features

Chrome Education Upgrade ^{12,13}

NOTE: To enhance brightness, level go to the Intel® Graphics Command Center app, click on System and turn off the Display Power Savings function.

Security Management

Titan C security chip

Nano lock slot (Lock sold separately) ¹²

Zero-touch enrollment ¹⁴

IPv6 Support

Yes

Is the BIOS on this Chromebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?: Yes

12. Sold separately.

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

14. Zero-touch enrollment is sold separately and requires separately purchased HP Get More Service. 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

POWER

Power Supply

HP Smart 45 W USB Type-C® adapter ¹⁵

Battery

HP Long Life 2-cell, 47 Wh Li-ion polym ^{16,17}

HP Fast Charge Technology (90% in 90 minutes) ¹⁸

Power Cord

3-wire plug - 1m

Battery Life

Up to 11 hours ¹⁹

Battery Weight

0.42 lb

190 g

15. Availability may vary by country.

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

17. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

18. Recharges up to 90% within 90 minutes when the system is off or in standby mode when used with the power adapter provided with the Chromebook device. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

19. Testing conducted by HP using Google ChromeOS power_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage and battery optimization activation. See <http://www.chromium.org/chromium-os/testing/power-testing> for test details. Battery configuration and charge capacity is optimized to improve battery health over time based upon charging patterns and temperature.

Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.24 lb ²⁰

Starting at 1.47 kg ²⁰

Product Dimensions (W x D x H)

11.61 x 8.08 x 0.82 in

29.5 x 20.53 x 2.09 cm

Packaging Dimensions (W x D x H)²¹

12-15" boxes (305mm height): 1200mm x 1000mm x 1080mm

16"-17" boxes (345mm height): 1200mm x 1000mm x 1200mm

20. Weight will vary by configuration.

21. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.

PORTS/SLOTS

2 SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data)

2 SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)

1 Headphone/microphone combo jack

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 except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. Onsite 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>.²²

22. 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.

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	USB-C 45W adapter
Nominal Operating Voltage	15V
Average Operating Power	<45W
Integrated graphics	Intel UHD Graphics 12EUs/24EUs
Discrete Graphics	N/A
Max Operating Power	<45W

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-operating	5% to 95%

Shock

Operating	40 G, 2 ms, half-sine
Non-operating	240 G, 2 ms, half-sine

Random Vibration

Operating	1.043 grams
Non-operating	3.5 grams

Altitude (unpressurized)

Operating	-50 to 10,000 ft (-15 to 3,048 m)
Non-operating	-50 to 40,000 ft (-15 to 12,192 m)

Planned Industry Standard Certifications

Regulatory Model Number	TPN-Q289
CSA/UL 62368-1	Yes
FCC/ICES/CISPR/VCCI	Yes
ENERGY STAR®	Yes ²³
EPEAT®	Yes, EPEAT® Gold in United States ²⁴
TCO	Yes
China CCC/SRRC	No
Korea KCC/KC/KES	Yes
Taiwan BSMI/NCC	Yes
GS Mark	No
Related commodity should comply with ISO 9241 Standards.	
CE Marking	Yes
EAEU Compliance	Yes
GOST	No
Saudi Arabian Compliance	Yes
Ukraine NSoC/TEC	No
Low Blue Light	No
WW RoHS	Yes

Technical Specifications

23. Configurations of the HP Fortis x360 11 inch G3 J Chromebook that are ENERGY STAR® qualified are identified as HP Fortis x360 11 inch G3 J Chromebook ENERGY STAR on HP websites and on <http://www.energystar.gov>.

24. 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.

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View.

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

Panel LCD 11.6 inch HD (1366x768) BrightView WLED UWVA 50percent cg 220nits eDP 1.2 w/o PSR slim TOP+ OBZ	Outline Dimensions (W x H x D)	299.6 x 192.9 x 4.2
	Active Area	256.125 x 144.0
	Weight	320g (max)
	Diagonal Size	11.6 (inch)
	Surface Treatment	Bright View
	Touch Enabled	Yes ¹
	Contrast Ratio	800:1 (typical)
	Refresh Rate	60Hz
	Brightness	220 nits (typ.)
	Pixel Resolution - Format	1366 x 768 (HD)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	CG 50%
	Color Depth	6
	Viewing Angle	UWV 85/85/85/85
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.13 (max) EBL@ 150nits

Technical Specifications

STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.3 GB is not user available.

eMMC 5.0	Form Factor	eMMC
	Capacity	32GB/64GB
	NAND Type	TLC/MLC
	Interface	MMC protocol
	Maximum Sequential Read	Up to 250MB/s
	Maximum Sequential Write	Up to 70 MB/s
	Logical Blocks	32GB (31,268,536,320 Bytes)/64GB(62,537,072,640 Bytes)
	Features	HS400

Technical Specifications

NETWORKING/COMMUNICATIONS

<p>Intel® Wi-Fi 6 AX201 + Bluetooth®5 (802.11ax 2x2, non-vPro, supporting gigabit file transfer speeds) ¹</p>	<p>Wireless LAN Standards</p>	<ul style="list-style-type: none"> IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	<p>Interoperability</p>	<ul style="list-style-type: none"> Wi-Fi certified
	<p>Frequency Band</p>	<ul style="list-style-type: none"> •802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 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
	<p>Data Rates</p>	<ul style="list-style-type: none"> • 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: max 300Mbps • 802.11ac : 1733Mbps • 802.11ax : max 2.4Gbps
	<p>Modulation</p>	<ul style="list-style-type: none"> Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	<p>Security³</p>	<ul style="list-style-type: none"> • 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 • WPA3 certification • IEEE 802.11i • WAPI
	<p>Network Architecture Models</p>	<ul style="list-style-type: none"> Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	<p>Roaming</p>	<ul style="list-style-type: none"> IEEE 802.11 compliant roaming between access points
	<p>Output Power²</p>	<ul style="list-style-type: none"> • 802.11b : +17dBm minimum • 802.11g : +16dBm minimum • 802.11a : +17dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +13dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum

Technical Specifications

- 802.11n HT40(5GHz) : +13dBm minimum
- 802.11ac VHT80(5GHz) : +10dBm minimum
- 802.11ac VHT160(5GHz) : +10dBm minimum
- 802.11ax HE40(2.4GHz) : +12dBm minimum
- 802.11ax HE80(5GHz) : +10dBm minimum
- 802.11ax HE160(5GHz) : +10dBm minimum

Power Consumption

- 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

Power Management

ACPI and PCI Express compliant power management
802.11 compliant power saving mode

Receiver Sensitivity⁴

- 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(VHT80) : -84dBm maximum
- 802.11ac, MCS9(VHT80) : -59dBm maximum
- 802.11ac, MCS9(VHT160) : -58.5dBm maximum
- 802.11ax, MCS11(HE40): -57dBm maximum
- 802.11ax, MCS11(HE80): -54dBm maximum
- 802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type

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

Form Factor

PCI-Express M.2 MiniCard with CNVi Interface

Dimensions

1. Type 2230 : 2.3 x 22.0 x 30.0 mm
2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight

1. Type 2230 : 2.8g
2. Type 1216: 1.3g

Operating Voltage

3.3v +/- 9%

Temperature

Operating 14° to 158° F (-10° to 70° C)
Non-operating -40° to 176° F (-40° to 80° C)

Humidity

Operating 10% to 90% (non-condensing)
Non-operating 5% to 95% (non-condensing)

Altitude

Operating 0 to 10,000 ft (3,048 m)
Non-operating 0 to 50,000 ft (15,240 m)

LED Activity

LED Amber – Radio OFF; LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2 Compliant

Frequency Band 2402 to 2480 MHz

Technical Specifications

Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Data Rates and Throughput	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)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

1. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
 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).
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Technical Specifications

POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

AC Adapter 45 Watt nPFC Standard USB type C Straight 1.8m	Dimensions (H x W x D)	95 x 40 x 26.5 mm
	Weight	200g +/- 10g (Not including power cord. Power cord varies by country.)
	Input	100 to 240 VAC
		Input Efficiency 88.0 % at 115 VAC and 89.0 % at 230VAC
		Input frequency range 48 ~ 63 Hz
		Input AC current Max. 1.4 A at 90 VA
	Output	Output power 45W
		DC output 19.5V
		Hold-up time 5ms at 115 Vac input
		Output current limit <8.0A Over voltage protection- 29V max automatic shutdown
	Connector	4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords
	Environmental Design	Operating temperature 32°F to 95°F (0° to 35°C)
		Non-operating (storage) temperature - 4°F to 185°F (-20° to 85°C)
		Altitude 1 to 16,400 ft (0 to 5,000m)
		Humidity 20% to 95%
		Storage Humidity 10% to 95%
EMI and Safety Certifications		Eg: *CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1 , Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, NOM-001 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

Technical Specifications

HP 2-cell Long Life Li-Ion Weight (47 WHr)¹		0.19 kg (0.418 lb)
	Cells/Type	2cell Lithium-Ion Polymer cell / 4473A9
	Energy	Voltage 7.7V
		Amp-hour capacity 6.15Ah
		Watt-hour capacity¹ 47.3Wh
	Temperature	Operating (Charging) 32° to 113° F (0° to 45° C)
		Operating (Discharging) 14° to 122° F (-10° to 60° C)
		Optional Travel Battery Available No

AUDIO

HD Stereo Codec	Realtek ALC5682I-VS
Audio I/O Ports	Headset connector supports both CTIA and OMTP style headset
Internal Speaker Amplifier	Maxim MAX98360D x 2, up to 3W class-D mono amplifier
Multi-streaming Capable	Follow ChromeOS behavior (NOT SUPPORT in current version)
Sampling	Follow ChromeOS behavior
Wavetable Syntheses	None
Analog Audio	Stereo headphone out by 3.5mm audio jack only
# of Channels on Line-Out	None
Internal Speaker	Yes

Technical Specifications

ENVIRONMENTAL DATA

Eco-Label Certifications & declarations	<p>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:</p> <ul style="list-style-type: none"> • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label* 		
Sustainable Impact Specifications	<ul style="list-style-type: none"> • Ocean-bound plastic in Speaker • 2% post-consumer recycled plastic • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable • Bulk packaging available 		
System Configuration	<p>The configuration used for the Energy Consumption and Declared Noise Emissions data for the Chromebook model is based on a “Typically Configured Chromebook device”.</p>		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Sort idle)	4.52 W	4.57 W	4.56 W
Normal Operation (Long idle)	1.81 W	1.93 W	1.74 W
Sleep	0.82 W	0.9 W	0.84 W
Off	0.18 W	0.22 W	0.18 W
	<p>NOTE: 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 Chromebook device featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.</p>		
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	15.5 BTU/hr	15.6 BTU/hr	15.6 BTU/hr
Normal Operation (Long idle)	6.2 BTU/hr	6.6 BTU/hr	6.0 BTU/hr
Sleep	2.8 BTU/hr	3.1 BTU/hr	2.9 BTU/hr

Technical Specifications

Off	0.6 BTU/hr	0.8 BTU/hr	0.6 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 _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	2.4	24.6	
Fixed Disk – Random writes	2.4	24.6	
Optical Drive – Sequential reads	N/A	N/A	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the		
	Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.		
Additional Information	<ul style="list-style-type: none"> 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 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 97.2% recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	186 g
		PAPER/Corrugated	40 g
		PAPER/Molded Pulp	36 g
	Internal:	PLASTIC/Polyethylene low density-LDPE	7 g
	The plastic packaging material contains at least 100.0% recycled content.		
	The corrugated paper packaging materials contains at least 35.6% recycled content.		
RoHS Compliance	<p>HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.</p> <p>We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.</p> <p>We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.</p> <p>To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.</p>		

Technical Specifications

Material Usage	<p>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/supplychain/gen_specifications.html):</p> <ul style="list-style-type: none"> • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • Bis(2-Ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP) • 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 (PBEBs) • 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. • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • 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	<p>HP 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.</p>

Technical Specifications

	<p>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.</p>
<p>HP, Inc. Corporate Environmental Information</p>	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</p> <p>Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html</p> <p>ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</p>
<p>footnotes</p>	<ul style="list-style-type: none"> • Percentage of ocean-bound plastic contained in each component varies by product • Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. • External power supplies, WWAN modules, power cords, cables and peripherals excluded. • 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. • Fiber cushions made from 100% recycled wood fiber and organic materials. • Plastic cushions are made from >90% recycled plastic.

COUNTRY OF ORIGIN

China

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

DOCKING (Sold Separately)

Docking station model #1	HP USB-C/A Universal Dock G2
Total number of supported displays (incl. the Chromebook device display)	3
Max. resolutions supported	Dual 4K @ 60Hz Single 5K @ 60Hz
Dock Connectors	1xHDMI, 2xDP
Technical limitations	Maximum resolution and display support is dependent on the maximum capability of the Chromebook device.

The best resolution for dual or triple displays is 4K UHD@ 60Hz.
For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host.

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

Category	Description	Part Number
Audio/Video	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Cases	HP Always On 11.6 Black Case	1D3D0AA
	HP Mobility 11.6 Laptop Case	4U9G8AA
	HP Mobility 14 Laptop Case	4U9G9AA
	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA	
Docking	HP USB-C/A 120W G2 Universal Dock	5TW13AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Keyboard/Combo	HP 325 BT Keyboard	45U14AA#ABA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 235 Wireless 2.4GHz Slim Wireless Mouse	4E407AA
	HP 320M USB-A Wired Mouse	9VA80AA

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

	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB Premium Wireless Mouse	1JR31AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	6E6F0AA
	HP 925 Ergonomic Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	6H1A5AA
Power	HP 45W USB-C LC AC Power Adapter	1MZ01AA
	HP 65W GaN USB-C Laptop Charger	600Q7AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
Commodity	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA

Summary of Changes

Date of change:	Version History:	Updated	Description of change:
February 23, 2023	V1 to V2	Updated	Overview images
February 28, 2023	V2 to V3	Updated	Wording updates
September 18, 202	V3 to V4	Added	Sensors in Audio/Multimedia section
December 20 2023	V4 to V5	Updated	Storage and Drives
April 26, 2024	V5 to V6	Update	MT/s units to memory speeds
July 16, 2024	V6 to V7	Removed	HP Classroom Manager

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