Overview

HP Fortis 14 inch G10 Chromebook



Left

- 1. Microphones (2)
- 2. Webcam
- 3. HP Privacy Camera
- 4. Webcam LED
- 5. Touchpad

- 6. SIM Card Tray (Optional)
- 7. SuperSpeed USB Type-A 5Gbps signaling rate
- 8. HDMI v1.4
- 9. Nano Lock slot (Lock sold separately.)

Overview



1. Power button

- 2. SuperSpeed USB Type-A 5Gbps signaling rate
- 3. Stereo Headphone/Microphone Combo Jack

Right

- **4.** SuperSpeed USB Type-C[®] 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)
- 5. Micro SD Memory Card Reader

Overview

AT A GLANCE

- Support up to Intel® Pentium® processor
- Stay connected with the optional embedded CAT9 WWAN 4G LTE
- Co-molded rubber contact points, strengthened corners around the display, and a reinforced 180° hinge reduce stress on the device caused by students gripping it by the lid ¹
- Intel® Wi-Fi 6 AX 2x2 WLAN with MU-MIMO and HP Extended Range Wireless Lan for stable connection in dense
 environment
- Choice of up to 8GB memory and 128GB eMMc storage
- 180 degree hinge and optional IPS anti-glare touchscreen for collaboration
- HP Privacy Camera
- Long battery life up to 12 hours² and spend less time charging with HP Fast Charge technology
- One HDMI port to connect to displays and projectors without dongle
- Give all your digital content new dimension and fully engage in advanced apps with the large 14-inch diagonal display.
- Front-facing 720p HD camera with 88-degree wide viewing angle comes with two microphones
- The full-skirted anchored keyboard resists keycap picking and spills up to 350 ml (11.8 oz)—reducing risk of damage.
- Wipe-ability for cleaning with common household cleaning wipes 3
- Easily maintain and upgrade your Chromebook with simplified access to internal components through the bottom cover
- Undergoes MIL-STD 810H tests and additional drop tests with 76cm drop on concrete and 122cm drop on plywood⁴
- 1. Any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- 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 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.
- 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 11 MK G9 EE, HP Chromebook 14 G7, HP Fortis 14" G10 Chromebook, 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 user guide for cleaning instructions.
- 4. 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.

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



PRODUCT NAME

HP Fortis 14 inch G10 Chromebook

OPERATING SYSTEM

Preinstalled Chrome OS

PROCESSORS

Intel® Pentium® Silver N6000 with Intel® UHD Graphics (up to 3.30 GHz, 4 MB cache, 4 cores, 4 threads) ^{1,2} Intel® Celeron® N5100 with Intel® UHD Graphics (up to 2.80 GHz, 4 MB cache, 4 cores, 4 threads) ^{1,2} Intel® Celeron® N4500 with Intel® UHD Graphics (up to 2.80 GHz, 4 MB cache, 2 cores, 2 threads) ^{1,2}

Processor Family

Intel® Pentium® processor (N6000)
Intel® Celeron® processor (N5100, N4500)

- 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

Non-Touch

35.6 cm (14") diagonal, HD (1366 x 768), SVA, anti-glare, 250 nits, 45% NTSC ^{3,4,5} 35.6 cm (14") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 250 nits, 45% NTSC ^{3,4,5}

Touch

35.6 cm (14") diagonal, HD (1366 x 768), touch, SVA, anti-glare, 250 nits, 45% NTSC ^{3,4,5,6} 35.6 cm (14") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 250 nits, 45% NTSC ^{3,4,5,6}

Display Size (Diagonal)

14"

35.56 cm (14")

- 3. FHD/HD content required to view FHD/HD images.
- 4. Sold separately or as an optional feature.
- 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 #1HP Thunderbolt Dock G2Docking station model #2HP USB-C Dock G5

Docking station model #3 HP USB-C/A Universal Dock G2

For additional aftermarket options and docking specs please see page 27.

STORAGE AND DRIVES

Primary Storage

128 GB eMMC 5.0 ⁷ 64 GB eMMC 5.0 ⁷ 32 GB eMMC 5.0 ⁷

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 SDRAM

Memory

8 GB LPDDR4X -4266 SDRAM 4 GB LPDDR4X -4266 SDRAM

Memory Slots

Memory soldered on board

NETWORKING/COMMUNICATIONS

WI AN

Intel® Wi-Fi CERTIFIED® 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro® 8 MU-MIMO supported
HP Extended Range WLAN supported

WWAN

Intel® XMM™ 7360 LTE-Advanced Cat 99

Chromecast

Chromecast Support 10

- 8. 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.
- 9. LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions. 10. Chromecast must be purchased separately.



AUDIO/MULTIMEDIA

Audio

HD audio Integrated dual array microphone 2 Integrated stereo speakers

Speaker Power

2W Per speaker

Camera

720p HD camera ³ HP Privacy Camera

3. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

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

Pointing Device

Clickpad with multi-touch gesture support Taps enabled as default

Function Keys

•

←	Back
\rightarrow	Forward
G	Reload
7.4	Full screen
	Display apps
O	Brightness down
\rightarrow	Brightness up
*	Mute
◆	Volume down

Volume up



SOFTWARE AND SECURITY

Preinstalled Software

HP Classroom Manager (Sold Separately) 11

Manageability Features

Chrome Education Upgrade 12,13

Security Management

Titan C security chip Nano lock slot (Lock sold separately) 12 Zero-Touch Enrollment capable

IPv6 Feautre

Yes

Is the BIOS on this Chromebook ISO19678 compliant? Yes

- 11. HP Classroom Manager is sold separately. Control and device locking from the teacher's desktop requires purchase of HP Classroom Manager.
- 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.

POWER

Power Supply

HP Smart 45 W USB Type-C® adapter

Battery

HP Long Life 2-cell, 47 Wh Li-ion polymer ^{14,15} HP Fast Charge Technology (90% in 90 minutes) ¹⁶

Power Cord

3-wire plug - 1m

Battery Life

Up to 12 hours¹⁷

Battery Weight

0.42 lb 190 q

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



Technical Specifications

16. 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 notebook. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

17. 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 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.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.61 lb ¹⁸ Starting at 1.64 kg ¹⁸

Product Dimensions (W x D x H)

13.06 x 9.07 x 0.82 in 33.19 x 23.05 x 2.09 cm

18. Weight will vary by configuration.

PORTS/SLOTS

- 1 SuperSpeed USB Type-C[®] 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)
- 2 SuperSpeed USB Type-A 5Gbps signaling rate
- 1 Headphone/microphone combo jack
- 1 HDMI v1.4

Expansion Slots

1 Micro SD multi-format digital media reader Supports SD, SDHC, SDXC



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 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. 19

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 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.



SYSTEM UNIT

Stand-Alone Power Requirements (AC Power) 45W adapter with USB type C connector

Nominal Operating Voltage 15V

Average Operating Power <4.3w with PLT test

Integrated graphics Intel UHD Graphics 16EUs/24EUs/32EUs

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 grms Non-operating 3.5 grms

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-Q271
UL Yes
CSA No
FCC Compliance Yes

ENERGY STAR® Yes, ENERGY STAR® 8.0²⁰

EPEAT Yes, EPEAT Gold in the United States²¹

ICES Yes Australia / Yes NZ RCM Compliance Yes CCC No Japan VCCI Compliance Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** No CIT Yes **EAC** Yes Saudi Arabian Compliance (ICCP) Yes SABS Yes

20. Configurations of the HP Fortis 14 G10 Chromebook that are ENERGY STAR® qualified are identified as HP Fortis 14 G10 Chromebook ENERGY STAR on HP websites and on http://www.energystar.gov.

21. 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.

Nο

UKRSERTCOMPUTER

DISPLAYS

1. Actual brightness will be lower with touchscreen or 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 14-in FHD (1920 x 1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP NWBZ slim

 Outline Dimensions (W x H x D)
 316.17 x 197.98 max.

 Active Area
 309.37 x 174.02

 Weight
 <285g max.</td>

 Diagonal Size
 14.0"

Thickness 3.0mm max.
Interface eDP 1.2
Surface Treatment Anti-glare (AG)

Touch Enabled No

Contrast Ratio600:1 (typ)Refresh Rate60HzBrightness250nit typ.

Pixel Resolution-Format 1920 x 1080 (FHD)

BacklightRGBPixel Resolution - ConfigurationLEDColor Gamut Coverage45%Color Depth6bit

Viewing Angle UWVA 85/85/85

Low Blue Light No

Power Consumption (W, EBL@ <2.52W max./ No define

150nits max/ 200nits max)

Panel LCD 14-in FHD (1920 x 1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP TOP NWBZ slim

 Outline Dimensions (W x H x D)
 316.17 x 198.07 max.

 Active Area
 309.37 x 174.02

 Weight
 <290g max.</td>

 Diagonal Size
 14.0"

Thickness 3.0mm (Panel Side) / 3.2mm (PCBA Side) max.

InterfaceeDP 1.2Surface TreatmentAnti-glare (AG)

Touch Enabled Yes

Contrast Ratio 600:1 (typ) - AG

Refresh Rate 60Hz

Brightness ¹ 250 nits typ. **Pixel Resolution-Format** 1920 x 1080 (FHD)

BacklightRGBPixel Resolution - ConfigurationLEDColor Gamut Coverage45%Color Depth6bit

Viewing Angle UWVA 85/85/85

Low Blue Light No



Power Consumption (W, EBL@ 150nits max/ 200nits max)

<2.67W max./ No define

Panel LCD 14-in HD (1366 x 768) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR TOP NWBZ flat

 Outline Dimensions (W x H x D)
 315.9 x 197.54 max

 Active Area
 309.4 x 173.95

 Weight
 290g Max

Diagonal Size 14."

Thickness 3.0mm (Panel Side) / 3.2mm (PCBA Side) max.

Interface eDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled Yes¹

Contrast Ratio 400:1 (Typ) - AG

Refresh Rate 60Hz Brightness 250nits

Pixel Resolution-Format 1366 x 768 (HD)

BacklightRGBPixel Resolution - ConfigurationLEDColor Gamut Coverage45%Color Depth6 bits

Viewing Angle SVA 45/45/15/30

Low Blue Light No

Power Consumption (W, EBL@ <2.44W max./ <3.02W max 150nits max/ 200nits max)

Panel LCD 14-in HD (1366 x 768) Anti-Glare WLED SVA 45percent cg 250nits eDP NWBZ ultraslim **Outline Dimensions (W x H x D)** 315.9+/-0.3 x 197.54 +/- 0.5

Active Area 309.4 x 173.95
Weight 285g Max
Diagonal Size 14."
Thickness 3.0mm max

Interface eDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled No

Contrast Ratio 300:1 (typ) - AG

Refresh Rate 60Hz Brightness 250nits

Pixel Resolution-Format 1366 x 768 (HD)

BacklightRGBPixel Resolution - ConfigurationLEDColor Gamut Coverage45%Color Depth6 bits

Viewing Angle SVA 45/45/15/30

Low Blue Light No

Technical Specifications

Power Consumption (W, EBL@ 150nits max/ 200nits max)

<2.52W max./ <2.86W max.



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 Drive Weight 0.2g

Rotation speed 32GB/64GB/128GB

Cache Buffer1.4mmHeight11.5x13mmWidthMMC protocolInterfaceMMC protocolTransfer RateUp to 250 MB/sSeek TimeUp to 70 MB/s

Logical Blocks 32GB (31,268,536,320 Bytes)/64GB (62,537,072,640

Bytes)/128GB (125,074,145,280)

Operating Temperature0 to 70Security FeaturesHS400FeaturesN/A



NETWORKING

non-vPro®

Intel® Wi-Fi 6 AX201 + Bluetooth® 5 (802.11ax 2x2, non-vPro®, supporting gigabit file transfer speeds) 1,5 Wireless LAN Standards

IEEE 802.11a
IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ax
IEEE 802.11d
IEEE 802.11d
IEEE 802.11h
IEEE 802.11h

IEEE 802.11k

IEEE 802.11v
Interoperability Wi-Fi certified

Frequency Band •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

Data Rates • 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 300Mbps802.11ac: 1733Mbps802.11ax: max 2.4Gbps

Modulation Direct Sequence Spread Spectrum

OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

Security³ 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

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 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

 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 126: 1.3q

Operating Voltage 3.3v +/- 9%

14° to 158° F (-10° to 70° C) **Temperature** Operating

> 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 Compliant 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 Legacy: 0~79 (1 MHz/CH)
Channels BLE: 0~39 (2 MHz/CH)

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**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. 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. Only available in countries where 802.11ax is supported.
- 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).
- 5. Wi-Fi 5 or 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.



Intel® XMM™ 7360 LTE-Advanced CAT9¹ **Technology/Operating** FDD LTE:

bands 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300

(Band 30), 1700/2100 (Band 66).

TDD LTE:

2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 450 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21 Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

Maximum powerLTE: 1,200 mA (peak); 900 mA (average)consumptionHSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 5.8 g

Dimensions 42 x 30 x 2.3 mm

(Length x Width x

Thickness)

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.



POWER

45W USBC PD Adapter Dimensions 3.74 x 1.69 x 1.08in (9.5 x 4.3 x 2.75 cm)

 Weight
 200g +/-10%

 Input
 100 to 240 VAC

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100% load condition with

115Vac/230Vac Spec:

5V:81.5% 9V:86.7% 12V:87.41% 15V:87.8% 47~63Hz

Input frequency range

Input AC current Max. 1.4 A at 90 Vac

Output

 Output power
 45W

 DC output
 5V/15W

 9V/27W

12V/36W 15V/45W

Hold-up time 5ms at 115 Vac input

Output current limit <5.0A

Connector USB Type-C®

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 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Eg:

Certifications * CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards -IEC60950, EN60950, UL60950, UL62368, 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.



Technical Specifications

HP 2-cell Long Life Li-Ion (47 Wh) **Dimensions (H x W x L)** 5.2 x 240.8 x 76.4 mm (0.204 x 9.48 x 3 inch)

Weight 0.192 kg (0.42 lb)

Cells/Type 2cell Lithium-Ion Polymer cell / 4473A9

Energy

Voltage 8.8V Amp-hour capacity 6.150 Ah Watt-hour capacity 47.3 Wh

Temperature

Operating (Charging)32° to 113° F (0° to 45° C)Operating (Discharging)14° to 122° F (-10° to 60° C)

Fuel Gauge LEDNAWarranty1-yearOptional Travel BatteryNo

Available

AUDIO

HD Stereo Codec Realtek ALC5682 -VD or 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 CapableFollow ChromeOS behaviorSamplingFollow ChromeOS behavior

Wavetable Syntheses N/A

Analog Audio Stereo headphone out by 3.5mm audio jack only

of Channels on Line-Out Line-out was not supported

Internal Speaker Yes

ENVIRONMENTAL DATA

Eco-Label Certifications & declarations Sustainable Impact Specifications	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® 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* Ocean-bound plastic in Speaker S% 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			
System Configuration	• Bulk packaging available 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 4.512 W	230VAC, 50Hz 4.500 W	100VAC, 50Hz 4.452 W	
Normal Operation (Sort idle)				
Normal Operation (Long idle)	1.440 W	1.512 W	1.392 W	
Sleep	0.324 W	0.360 W	0.336 W	
Off	0.204 W	0.240 W	0.204 W	



Technical Specifications

!	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 PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.					
Heat Dissipation*	115VAC, 6	0Hz	230VAC	, 50Hz	,	100VAC, 50Hz
Normal Operation (Short idle)	15.4 BTU	/hr	15.4 B	ΓU/hr		15.2 BTU/hr
Normal Operation (Long idle)	4.9 BTU/	hr	r 5.2 BTU/hr			4.8 BTU/hr
Sleep	1.1 BTU/	hr	1.2 BT	U/hr		1.1 BTU/hr
Off	0.7 BTU/	hr	0.8 BT	U/hr		0.7 BTU/hr
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service levaluated for one hour.			assuming the service level is		
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				23	3.9
Fixed Disk – Random writes	2.4			23	3.9	
Optical Drive — Sequential reads	-					-
Longevity and Upgrading Additional Information	 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. 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 95.7% recycle-able when properly disposed of at end of life. 					
				re marked per ISO11469 and		
Packaging Materials	External: PAPER/Corrugated 230 g				230 g	



Technical Specifications

	PAPER/Paperboard	51 g		
	PAPER/Molded Pulp	110 g		
Internal:	OTHER/Other	13 g		
The plastic ¡	oackaging material contains at least 100% recycled co	ontent.		
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) Direction 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.				
wide elimina substances—	tion of substances of concern. We have supported the -including PVC, BFRs, and certain phthalates—in futu	inclusion of additional		
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 scope of the commitment to include further restricted substances as regulations continue evolve.				
To obtain a c	opy of the HP RoHS Compliance Statement, see HP R	oHS position statement.		
Material Usage This product does not contain any of the following substances in excess of refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/ge				
 Cert Cert Cad Chlo Bis(Ben Dibt Diist Forr Halo Lead Mert Nick han 	ain Azo Colorants ain Brominated Flame Retardants – may not be used mium orinated Hydrocarbons orinated Paraffins 2-Ethylhexyl) phthalate (DEHP) zyl butyl phthalate (BBP) obutyl phthalate (DIBP) obutyl phthalate (DIBP) maldehyde ogenated Diphenyl Methanes d carbonates and sulfates d and Lead compounds curic Oxide Batteries sel – finishes must not be used on the external surface			
	The plastic process The corrugal HP Inc. compute restriction to our product related legisles. We believe the wide eliminal substances—pertains to element scope of the evolve. To obtain a compute the evolve. This product (refer to the evolve.) To obtain a compute the evolve. This p	Internal: OTHER/Other The plastic packaging material contains at least 100% recycled or The corrugated paper packaging materials contains at least 35.6 HP Inc. complies fully with materials regulations. We were among the restrictions in the European Union (EU) Restriction of Hazardo to our products worldwide through the HP GSE. HP has contributer related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important wide elimination of substances of concern. We have supported the substances—including PVC, BFRs, and certain phthalates—in futupertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance requirements for virtually all relevant products by July 2013, and scope of the commitment to include further restricted substances evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP R This product does not contain any of the following substances in e (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supply): Asbestos Certain Azo Colorants Certain Brominated Flame Retardants — may not be used Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (DBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DBP) Diisobutyl phthalate (DBP) Diisobutyl phthalate (DBP) Diisobutyl phthalate (DBP) Pormaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel — finishes must not be used on the external surface handled or carried by the user.		

Technical Specifications

recinicat Specificat	
Packaging Usage	 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) 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 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.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:
Environmental infolliation	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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	 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-
	 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.

Technical Specifications

COUNTRY OF ORIGIN

China



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

HP Thunderbolt Dock G2

DOCKING (Sold Separately)

Dock Connectors

Docking station model #1

Total number of supported displays

(incl.the notebook display) Max.resolutions supported

Dual 4K @30Hz or dual 4K UHD @ 60Hz is supported

Dual 8K@ 60Hz for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode

2xDP. 1xVGA. 1xTB. 1xUSB-C alt-mode

Technical limitations Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running

Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in

multi-function mode is:

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multifunction mode the maximum resolution for (3) displays is (2) 5K single cable

@ 30Hz + (1) 4K UHD @ 30Hz.

Docking station model #2

Total number of supported displays

(incl.the notebook display) Max.resolutions supported

Dock Connectors

Technical limitations

HP USB-C Dock G5

Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)

1xHDMI, 2xDP

Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one

4K UHD@ 30 Hz on HDMI in Multi-function mode

The highest resolution for a non-Thunderbolt host in Multi-function mode is a

single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.

Docking station model #3

Total number of supported displays

(incl.the notebook display) Max.resolutions supported

Dock Connectors

Technical limitations

HP USB-C/A Universal Dock G2

3

Triple 4K UHD@ 60Hz 3840x2160

1xHDMI, 2xDP

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 955 4K Webcam	4C9Q3AA
Cases	HP Executive 14.1 Tote	6KD10AA
	HP Executive 15.6 Backpack	6KD07AA
	HP Executive 15.6 Top Load	6KD06AA
	HP Executive 17.3 Backpack	6KD05AA
	HP Executive 17.3 Top Load	6KD08AA
	HP Executive Leather 15.6 Top Load	6KD09AA
	HP Executive Slim 14.1 Top Load	6KD04AA
	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 14 Laptop Sleeve	2E6U9AA,2E6V0AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
Docking	HP Thunderbolt 120W G4 Dock	4J0A2AA
	HP USB-C 120W G5 Dock	26D32AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt 120W G2 Dock	2UK37AA
Hub	HP USB-C Mini Dock	1PM64AA
	HP USB-C Travel Dock G2	7PJ38AA
Adapter	HP HDMI to DVI Adapter	F5A28AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB to Gigabit RJ45 Adapter	N7P47AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
	HP USB-C to RJ45 Adapter	V7W66AA
Keyboard/Combo	HP 325 Chrome Wireless Keyboard	45U14AA
Mouse	HP USB Premium Wireless Mouse	1JR31AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA



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

-		
	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power	HP 45W USB-C G2 Zeus AC Power Adapter	1HE07AA
	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
Commodity	HP Nano Keyed Cable Lock	1AJ39AA
commounty	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
	The Sarchey Standard, Mario, Wedge Cable Lock	OOWALAA



HP Fortis 14 inch G10 Chromebook

Summary of Changes

Date of change:	Version History:	Updated	Description of change:
	V1 to V2		

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