Overview

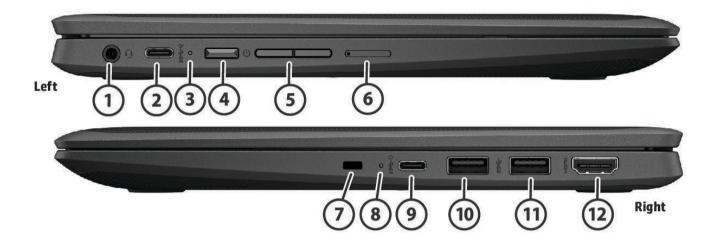
HP Fortis Flip G1i 11 inch Chromebook



- 1. Internal Microphone (2)
- 2. Webcam
- 3. HP Privacy Camera
- 4. Webcam LED
- 5 HP USI Garaged Pen (Optional)
- 6. Pen Charging Garage (Optional)

- 7. Lock Key
- 8. Clickpad
- 9. Microphone (Optional)
- **10.** Auto-Focus 8MP Rear Camera with single mic (World Facing secondary camera) (Optional)
- 11. Webcam LED (Optional)

Overview



. Headphone/mic combo jack

- 2. USB Type-C[®] 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)
- 3. Power Light
- 4. Power Button
- 5. Volume Buttons
- **6.** SIM Card Tray (optional and only available with the LTE Module)

Sides

- **7.** Security lock slot (Lock sold separately)
- 8. Power Light
- USB Type-C[®] 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)
- 10. USB Type-A 5Gbps signaling rate (Powered)
- 11. USB Type-A 5Gbps signaling rate (Powered)
- **12.** HDMI 1.4



PRODUCT NAME

HP Fortis Flip G1i 11 inch Chromebook

OPERATING SYSTEMS

Preinstalled

Chrome OS

PROCESSORS

Processor 1,2	Cores	Number of Threads		L3 Cache	Max Turbo Frequency Base Frequency	
riocessor	Cores	E-cores	illicaus	LJ Cacile	E-cores	E-cores
Intel® N250	4	4	4	6 MB	3.8 GHz	1.3 GHz
Intel® N150	4	4	4	6 MB	3.6 GHz	0.8 GHz

Processor Family

Intel® Processor N-series

- 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 Graphics³

Supports

Support HD decode, DX12, HDMI

3. HD content required to view HD images.



DISPLAY

Touch

29.46cm (11.6") diagonal, HD (1366 x 768), LCD, Touch, UWVA, BrightView, Corning® Gorilla® Glass 3, WLED, 250 nits, NTSC 50% (USI Pen supported) 3,4,5,6

Pen

HP USI Garaged Pen (optional)

Displays support

Support extended displays through HP docks

Display Size (Diagonal)

11.6"

29.46cm

- 3. HD content required to view 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

STORAGE AND DRIVES

Primary Storage

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

7. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.0GB is not user accessible



MEMORY

Maximum Memory

16 GB LPDDR5X -7500 MT/s

Memory

16 GB LPDDR5X -7500 MT/s 8 GB LPDDR5X -7500 MT/s 4 GB LPDDR5 -6400 MT/s

Memory Slots

No memory slots Memory soldered on board The memory is non-accessible / non-upgradeable

NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 (2x2) Wi-Fi 6E Bluetooth® 5.3 wireless card, non-vPro® 8 MediaTek MT7921 (2x2) Wi-Fi 6 Bluetooth® 5.3 wireless card® 9 MU-MIMO supported HP Extended Range WLAN supported

WWAN

Qualcomm[®] Snapdragon[™] X12 LTE-Advanced CAT 6¹⁰

Chromecast

Chromecast Support 11

8. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.

9. 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.

10. 4G 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.

11. Chromecast must be purchased separately.



AUDIO/MULTIMEDIA

Audio

Waves MaxxAudio® Dual speakers Dual array microphones

Speaker Power

2W/4ohm Per speaker

Camera

720p HD camera ¹² HP Privacy Camera

8 MP Rear Camera with SingleMic (World Facing secondary camera) (Optional)

Sensors

Accelerometer + Gyroscope

12. 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

C Reload

[] Full Screen

□II Display Apps

Screenshot

Brightness Down

Brightness Up

Mute

Volume Down

Volume Up



Technical Specifications

SOFTWARE AND SECURITY

Software

HP Support Assistant

Manageability Features

Chrome Education Upgrade ^{13,14} Chrome Enterprise Upgrade

Security Management

Titan H1 Security Chip Security lock slot (Lock sold separately) ¹³ Zero-touch enrollment ¹⁵

IPv6 Support

Yes

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

13. Sold separately

- 14. 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.
- 15. 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 65W Standard USB Type-C® Halogen Free AC power adapter ¹⁶ HP 45W Standard USB Type-C® AC power adapter ¹⁶

Battery

HP Long Life 2-cell, 47 Whr Li-ion polymer ^{17,18} HP Fast Charge Technology (90% in 90 minutes) ¹⁹

Power Cord

3-wire plug - 1m 16

Battery Life

Up to 10 hours 34 minutes with 47 Wh battery (HP Long Life 2-Cell, 47 Whr Polymer, UMA graphic, Intel N150, display set to 80 nits, 4G memory, 32 GB eMMC) ²⁰

Battery Weight

0.48 lb 220 g

- 16. Availability may vary by country.
- 17. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 18. 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.
- 19. 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 speed will return to normal. Charging time may vary +/-10% due to System tolerance.
- 20. 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 3.22 lb ²¹ Starting at 1.46 kg ²¹

Product Dimensions (W x D x H)

295 x 204.4 x 20.95 3 mm 11.61 x 8.03 x 0.78 in

Packaging and Pallet Dimensions

Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details. For detailed packaging information, access the HP Commercial Notebooks Packaging Guide.

21. Weight will vary by configuration. Does not include power adapter.

PORTS/SLOTS

2 x USB Type-C[®] 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2)

2 x USB Type-A 5Gbps signaling rate (Powered)

1 x Headphone/mic combo jack

1 x Security lock slot

1 x HDMI 1.4 ²²

22. HDMI cable sold separately.

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. ²³

23. 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

USB-C 45W adapter

(AC Power)

Nominal Operating Voltage 15V

Average Operating Power <4.3w with PLT test Integrated graphics Intel® UHD Graphics

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 (-15.24 to 3,048 m) -50 to 40,000 ft (-15.24 to 12,192 m) Non-operating

Planned Industry Standard

Certifications

EPEAT®

Regulatory Model Number TPN-Q296 CSA/UL 62368-1 Yes

Yes 24 **ENERGY STAR®**

FCC/ICES/CISPR/VCCI Yes **CE MARKING** Yes **GS Mark** No

Related commodity should comply with ISO 9241 Standards.

EPEAT® Gold in the United States 25

China CCC/SRRC No Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes Ukraine NSoC/TEC No **EAEU Compliance** Yes Saudi Arabian Compliance No TCO Yes WW RoHS Yes Low Blue Light No

24. Configurations of the HP Fortis Flip G1i 11 inch Chromebook that are ENERGY STAR® qualified are identified as HP Fortis Flip G1i 11 inch Chromebook ENERGY STAR on HP websites and on http://www.energystar.gov.



25. 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.

11.6" diagonal HD BrightView flat LED backlit(1366 x 768)

 Outline Dimensions (W x H x D)
 284.840 x 188.860 mm (max)

 Active Area
 257.440 x 145.300 mm (typ.)

Weight 320 g (max)

Diagonal Size 11.6 (inch)

Surface Treatment BrightView

Touch Enabled Yes 1

Contrast Ratio 600:1 (typical)

Refresh Rate60HzBrightness250 nits 1

Pixel Resolution - Format 1366x768 (HD)

BacklightWLEDPixel ResolutionRGB

Color Gamut Coverage NTSC 50%

Color Depth 6 (Hi FRC w/ condition to enable)

Viewing Angle UWVA 85/85/85

Low Blue Light No

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

EBL@60nits/150nits: 1.3 (max)/ 1.94 (max)



STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 18.0GB is not user accessible.

eMMC 5.x Form Factor 153 FBGA

Capacity 32GB/64GB

NAND Type TLC Height 1.4mm

Width 11.5 x 13mm

Weight 0.2g
Interface eMMC 5.x

Maximum Sequential Read Up to 300 MB/s
Maximum Sequential Write Up to 200 MB/s

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

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

128GB UFS Form Factor UFS 3.1

Capacity128GBNAND TypeTLCInterfaceSCSI

Maximum Sequential Read 1000MB/s (ADL-N support UFS 2.1 only)

Maximum Sequential Write 200MB/s

Logical Blocks 128GB (127,984,992,256 Bytes)

Features HS400

NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E and Wireless LAN Standards
Bluetooth® 5.3 wireless
card M.2 160MHz CNVi

World-wide WLAN nonvPro® 1

IEEE 802.11a
IEEE 802.11a
IEEE 802.11a
IEEE 802.11a
IEEE 802.11a
IEEE 802.11a

IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r 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

5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz

Data Rates • 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps802.11a: 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

• 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 certificationWPA3 certificationIEEE 802.11iWAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)



Roaming IEEE 802.11 compliant roaming between access points

Output Power³ • 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

Dimensions 1. Type 2230: 2.3 x 22.0 x 30.0 mm

Weight 1. Type 2230: 2.8g

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 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant

Frequency Band 2402 to 2480 MHz

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. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E 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. Check latest software/driver release for updates on supported security features.

- 3. 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.
- 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).



Mediatek MT7921 Wi-Fi 6 Wireless LAN Standards + Bluetooth® 5.3 wireless card (802.11ax 2x2, supporting gigabit data

rate)¹

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 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v

Interoperability Wi-Fi certified modules

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: max 866.7Mbps802.11ax: max 1201Mbps

Modulation DSSS, OFDM, DBPSK, DQPSK, CCK, 16 QAM, 64 QAM, 256 QAM,

1024 QAM

• IEEE and WiFi certified 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

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Models

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Infrastructure (Access Point Required)

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802.11ac VHT80(5GHz): +11.5dBm minimum
 802.11ax HE40(2.4GHz): +10dBm minimum

• 802.11ax HE80(5GHz): +10dBm minimum

Power Consumption • Transmit mode :2.5 W

• Receive mode: 2 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode :50 mW (WLAN unassociated)
Connected Standby/Modern Standby: 10mW

Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

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802.11n, MCS15: -64dBm maximum
802.11ac, MCS0: -84dBm maximum
802.11ac, MCS9: -59dBm maximum

802.11ax, MCS11(HE40): -57dBm maximum
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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 + 4 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.
- 2. Check latest software/driver release for updates on supported security features.
- 3. 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.
- 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).



Qualcomm®

Snapdragon™ X12 LTE-Advanced (CAT 6)¹

Chrome

Technology/Operating bands FDD-LTE:

1,2,3,4,5,7,8,12,13,14,17,18,19,20,25,26,28,29,30,66,71

TDD-LTE:

38,39,40(1),41,42(1),43(1),48(2)UMTS/HSPA+:

1,2,4,5,6,8,19

(1)Not support B40/42/43 in FCC/IC

(2)Not support B48 in IC (3)Not support HPUE in Japan

Wireless protocol standards LTE Modulation 3GPP Release 12 LTE Specification DL-CAT.6, DL

64QAM BW throughput up to 300Mbps; UL-CAT.4 16QAM throughput

up to 50Mbps

UMTS Modulation 3GPP Release 9

GPS Not support

Maximum data rates LTE: 300 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) UMTS: 384Kbps (Download), 384Kbps (Upload)

Maximum output power LTE: 23/24dBm

WCDMA: 23.5dBm 2.5A maximum

Maximum power consumption

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)

embedded eSIM Support

1. 4G 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.



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.

45W USB Type C® Adapter Weight

0.44 lb (200 g) max (Not including power cord. Power cord varies by

country.)

Input 100-240Vac

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 87.4% 15V: 87.8%

Input frequency range 47-63Hz

Input AC current Max. 1.4 A at 90 Vac

Output power 5V/15W

9V/27W 12V/36W 15V/45W

DC output 5V/9V/12V/15V

Hold-up time 100% load 5ms at 115 Vac input

Output current limit < 5.0A

Connector USB Type C®

Environmental Design Operating 32°F to 95°F (0°to 35°C)

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

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

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety Certifications

Output

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, USB-IF,

Ukraine(CoC+DoC+RoHS+ECO)

65W Standard USB-C Halogen Free Straight AC Power Adapter Dimensions Weight Input Voltage Input Efficiency

3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm)

220g(+/-10g) (Not including power cord. Power cord varies by country.)

100-240Vac

81.50% min at 115 Vac/ 230 Vac @5.00V 86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V

89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V

Input Frequency Range 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output Power 5V/15W 9V/27W 12V/60W 15V/65W

15V/65W 20V/65W

DC Output 5V/9V/12V/15V/20V

Hold-up Time 100% load 5ms at 115 Vac input

Output Over Current < 8.0A

Protection

AC Connector C6

DC ConnectorUSB type CDC Cable MaterialHalogen Free

Operating Temperature 32°F to 95°F (0° to 35°C)
Non-operating (storage) -4°F to 185°F (-20° to 85°C)

. Temperature

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

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety CE Mark - full compliance with LVD and EMC directives

Certifications Worldwide safety standards - IEC60950-1 and IEC62368-1 : 2018,

EN62368-1:2014+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU,

KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA

DoC

HP 2-cell Long Life Li-Ion Weight

(47 Wh)1

/eight 0.22 kg (0.48 lb)

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

Energy Voltage 8.8V

Amp-hour capacity 6.15Ah 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)

Optional Travel Battery No

Available



AUDIO

HD Stereo Codec Realtek ALC5682I-VS

Audio I/O Ports Headset connector supports both CTIA and OMTP style headset Internal Speaker Amplifier Maxim MAX98360A x 2, up to 3W class-D mono amplifier

Multi-streaming CapableFollow ChromeOS behavior and definitionSamplingFollow ChromeOS behavior and definition

Wavetable Syntheses N/A

Analog Audio Stereo headphone out by 3.5mm audio jack only.

of Channels on Line-Out Line-out is not supported.

Internal Speaker Yes



Technical Specifications

ENVIRONMENTAL DATA

Eco-Label Certifications &			g certified to the following approvals and			
declarations	may be labeled with one o	r more of these marks:				
	 IT ECO declaration US ENERGY STAR® 					
			s. See http://www.epeat.net for registratior			
	status in your cou	untry.				
	TCO Certified					
		servation Program (CECP)				
		onmental Protection Admi	nistration (SEPA)			
	Taiwan Green Ma	rk				
	Korea Eco-label					
<u> </u>	Japan PC Green la					
Sustainable Impact	Product Carbon F					
Specifications	2% post-consumer recycled plastic					
	• 1% recycled metal					
	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. Pulls a sleep size a suside black.					
System Configuration	Bulk packaging available The configuration used for the Energy Consumption and Declared Noise Emissions data for the					
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".					
Energy Consumption	Notebook illouet is based	Typically configured	Notebook .			
(in accordance with US						
ENERGY STAR® test						
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Sort	1134AC, 00112	230VAC, 30112	100VAC, JUIIZ			
idle)	3.84 W	3.97 W	3.85 W			
	_					
Normal Operation (Long	1.81 W	1.95 W	1.82 W			
idle)						
Sleep	0.45 W	0.51 W	0.46 W			
Off	0.27 W	0.31 W	0.26 W			
	NOTE:					
		ed is for an ENERGY STAR®	compliant product if offered within the			

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

Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	13 BTU/hr	14 BTU/hr	13 BTU/hr
Normal Operation (Long idle)	6 BTU/hr	7 BTU/hr	6 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
		1	



Technical Specifications

		E: Heat dissipation is calculated based on the measured watts, assuming the service level led 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 24.1			
Fixed Disk – Random writes		2.4	24.	.1	
Optical Drive – Sequential reads	N/A N/A			А	
Longevity and Upgrading	-	can be upgraded, possibly /or components contained	vextending its useful life by sevent in the	eral years. Upgradeable	
	Spare parts a of production		ne warranty period and or for up	to "5" years after the end	
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043. This product is 97.1% recycle-able when properly disposed of at end of life. 				
Packaging Materials	External:	PAPER/Corrugated		226 g	
		PAPER/Molded Pulp		82 g	
	Internal:	OTHER/Other	16 g		
	The plastic packaging material contains at least 100% recycled content.				
	The corrugated paper packaging materials contains at least 35.6% recycled content.				
RoHS Compliance	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.				
	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.				
	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.				
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.				



Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):				
	 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 (PBBEs) Polybrominated 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	 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	HP offers end-of-life HP product return and recycling programs in many geographic areas. To				
and Recycling	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	For more information about HP's commitment to the environment:				
Environmental					
Information	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 1680.1-2018 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.				



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

DOCKING (Sold Separately)

Docking station model #1 HP USB-C G5 Dock

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port

High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @

60Hz on HDMI port

Dock Connectors 1x HDMI 2.0, 2x DisplayPort 1.4

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

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

mode.

3

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.



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

Туре	Description	Part Number
Cases	HP 115 15.6 Laptop Backpack	8DV45AA#ACJ
	HP 215 15.6 Laptop Backpack	35L98AA#ACJ
	HP 225 15.6 Laptop Backpack	2P7U6AA#ACJ
	HP 235 15.6 Laptop Backpack	35M00AA#ACJ
	HP 315 15.6 Laptop Backpack	35L97AA#ACJ
	HP Campus Blue Backpack	7J596AA
	HP Campus Green Backpack	7J595AA
	HP Campus XL Marble Stone Backpack	7J592AA
	HP Campus XL Tie Dye Backpack	7J593AA
	HP Mobility 11.6 Laptop Case	4U9G8A6
	HP Mobility 11.6 Laptop Case	4U9G8AA
	HP Prelude 15.6 Top Load	1E7D7A6
	HP Prelude 15.6 Backpack	1E7D6A6
	HP Prelude G2 15.6 Backpack	2Z8P3AA
	HP Prelude G2 15.6 Top Load	2Z8P4AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644A6
	HP Prelude Pro Recycled 15.6 Top Load	1X645A6
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Sleeve	3E2U7A6
	HP Renew Business 14.1 Laptop Bag	3E5F9A6
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8A6
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5A6
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Travel 18L 15.6 Iron Gray Laptop Backpack	6B8U6AA
	HP Travel 25L 15.6 Iron Gray Laptop Backpack	6B8U4AA
Docking	HP USB-C G5 Dock	5TW10AA
Keyboard/Combo	HP 320K WD USB Keyboard	9SR37AA
	HP 325 Chrome BT Keyboard	45U14AA#ABA



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

Power	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
	HP 65W USB-C Hades AC Power Adapter	X7W50AA
	HP 65W USB-C Laptop Charger	671R2AA
	HP 65W USB-C LC AC Power Adapter	944V0AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
1140	HP Universal USB-C Multiport Hub	50H98AA
	HP USB-C to USB-A Hub Jake	Z8W90AA
	HP USB-C Travel Hub G3	86T46AA
	הר Cop-C Havel nub do	00140AA
Adapters	HP HDMI to VGA Adapter Wall-e	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2 Luna2	8Y8Y1AA
	HP USB-C to DisplayPort Adapter Luna	N9K78AA
	HP USB-C to HDMI 2.0 Adapter GABBA	2PC54AA
	HP USB-C to RJ45 Adapter G2	4Z534AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter Scrappy	P7Z54AA
Audio	HP 3.5mm G2 Stereo Headset	428H6AA
	HP USB G2 Stereo Headset	428H5AA
Security	HP Combination Nano Cable Lock	63B28AA
•	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Digital Pen	HP USI Garaged Pen	4R0Q5AA



Change Log

Date of change:	Version History:		Description of change:
February 10, 2025	VV1 to 2	Updated	Display Section
February 14, 2025	V2 to V3	Updated	Display Section
			Weights Section

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