Overview

HP Pro c640 G2 Chromebook



- 1. Microphones (2)
- 2. Camera LED
- 3. Privacy Camera Switch
- 4. HD Camera
- 5. Clickpad
- 1. SuperSpeed USB 20Gbps is not available.

Left

- 6. Nano Security Slot (Lock sold separately)
- 7. SuperSpeed USB Type-C[®] 10Gbps signaling rate (Power delivery, DisplayPort™) ¹
- 8. HDMI 2.0 (Cable not included)
- 9. SuperSpeed USB Type-A 10Gbps signaling rate ¹

Overview



- 1. Power Button
- 2. SuperSpeed USB Type-A 10Gbps signaling rate ²
- 3. SuperSpeed USB Type-C® 10Gbps signaling rate (Power delivery, DisplayPort™)²
- 2. SuperSpeed USB 20Gbps is not available.

Right

- 4. Stereo Headphone/Microphone Combo Jack
- **5.** MicroSD™ Memory Card Reader
- 6. Fingerprint Sensor (Optional)

Overview

AT A GLANCE

- Support Intel® 11th Generation Core Processors
- Up to 16GB memory and storage options of 64GB eMMC or up to 256GB SSD.
- Sleek design with aluminum cover & narrow border display
- Faster data transfer in dense office environments by having Wi-Fi 6 2X2 ax WLAN with MU-MIMO and HP Extended Range Wireless Lan design
- Conferencing experience with audio by B&O
- Optional backlit keyboard for working in dark environment
- Optional touchscreen for intuitive interactions
- Optional fingerprint sensor for seamless login
- HP Privacy Camera protects your privacy from remote camera hacking
- HP Fast Charge Technology with long battery life for supporting your long workday
- One HDMI port for instant collaboration without dongles
- Support HP USB Type-C[®] docks and docking monitors
- Undergoes MIL-STD 810H Tests¹

1. MIL-STD 810H is not intended to demonstrate fitness of U.S. Department of Defense 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.



Technical Specifications

PRODUCT NAME

HP Pro c640 G2 Chromebook

OPERATING SYSTEM

Preinstalled Chrome OS

PROCESSOR

Intel® Core™ i7-1185G7 processor (3.0 GHz base frequency, up to 4.80 GHz with Intel® Turbo Boost Technology, 12 MB cache, 4 cores) 1,2,3

Intel® Core™ i7-1165G7 processor (2.8 GHz base frequency, up to 4.70 GHz with Intel® Turbo Boost Technology, 12 MB cache, 4 cores) 1,2,3

Intel® Core™ i5-1145G7 processor (2.6 GHz base frequency up to 4.40 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) 1,2,3

Intel® Core™ i5-1135G7 processor (2.4 GHz base frequency, up to 4.20 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) 1,2,3

Intel® Core™ i3-1115G4 processor with Intel® UHD Graphics (3.0 GHz base frequency, up to 4.10 GHz with Intel® Turbo Boost Technology, 6 MB cache, 2 cores) 1.2.3

Intel® Pentium® Gold 7505 processor with Intel® UHD Graphics (2.0 GHz base frequency, up to 3.50 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) 1,2,3

Intel® Celeron® 6305 processor with Intel® UHD Graphics (1.8 GHz base frequency, up to Standard, 4 MB cache, 2 cores) 1,2,3

Processor Family

11th Generation Intel® Core™ i7 processor 11th Generation Intel® Core™ i5 processor 11th Generation Intel® Core™ i3 processor Intel® Pentium® processor Intel® Celeron® processor

- 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.
- 3. Intel® Turbo Boost performance varies depending on hardware, software, and overall system configuration. See http://www.intel.com/technology/turboboost for more information.



CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics4,5 Intel® UHD Graphics4

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

5. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

DISPLAY

Non-Touch

35.56 cm (14") diagonal HD (1366 x 768) SVA anti-glare micro-edge WLED-backlit, 250 nits, 45% NTSC 4,6,7 35.56 cm (14") diagonal FHD (1920 x 1080) IPS anti-glare micro-edge WLED-backlit, 250 nits, 45% NTSC 4,6,7

Touch

35.56 cm (14") diagonal FHD (1920 x 1080) IPS anti-glare touch on panel micro-edge WLED-backlit touch screen, 250 nits, $45\% \text{ NTSC}^{4,6,7,8}$

35.56 cm (14") diagonal HD (1366 x 768) SVA anti-glare touch on panel micro-edge WLED-backlit touch screen, 250 nits, 45% NTSC 4,6,7,8

HDMI

HDMI 2.0 supporting up to 1920 x 1080

Displays support

Support extended displays through HP docks

Display Size

14"

35.56 cm (14")

- 4. HD content required to view HD images.
- 6. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 7. Sold separately or as an optional feature.
- 8. Actual brightness will be lower with touchscreen or Sure View

Technical Specifications

STORAGE AND DRIVES

Primary Storage 64 GB eMMC ⁹

Primary M.2 Storage

256 GB PCIe[®] NVMe[™] M.2 SSD ⁹ 128 GB PCIe[®] NVMe[™] M.2 SSD ⁹

9. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 5.1 GB is not user available.

MEMORY

Maximum Memory

16 GB DDR4 - 3200 SDRAM

Memory

16GB DDR4 – 3200 SDRAM 8 GB DDR4 – 3200 SDRAM

Memory Slots

On-board system memory Supports Dual Channel Memory

NETWORKING/COMMUNICATIONS

WLAN

Intel® Wi-Fi 6 AX201 802.11a/b/g/n/ac/ax (2x2) Wi-Fi® and Bluetooth® 5 Combo, non- vPro® (Support MU-MIMO and HP Extended Range Wireless LAN) 10

Chromecast

Chromecast Support 11

10. 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. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax is supported.

11. Chromecast must be purchased separately.

AUDIO/MULTIMEDIA

Audio

HD Audio Dual stereo Speakers Audio by B&O

Speaker Power

2W/4ohm per speaker

Camera

720p HD camera ⁴ HP Privacy Camera

4. HD content required to view HD images.

KEYBOARD/POINTING DEVICES

Keyboard

Full-size Textured island-style Chrome keyboard, Flint Silver, spill resistant Full-size 3-coat painted island-style Chrome keyboard, backlit, Flint Silver, spill resistant 12

Pointing Device

Clickpad with multi-touch gesture support, taps enabled as default

12. Backlit keyboard is an optional feature.

SOFTWARE AND SECURITY

Preinstalled Software

Google Play Store

Manageability Features

Chrome OS zero-touch enrollment ¹³ Chrome Education Upgrade (Optional) ¹⁴ Chrome Enterprise Upgrade (Optional) ¹⁵

Security Management

Titan C security chip Fingerprint sensor (Optional) ¹⁶ Nano security lock slot ¹⁷ Zero-Touch Enrollment capable

- 13. ZTE 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.
- 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. Single Chrome Enterprise Upgrade included. Requires one-time setup. Please see https://support.google.com/a/topic/1409901.



Technical Specifications

16. HP Fingerprint Sensor is an optional feature and requires configuration at purchase.

17. Sold separately.

POWER

Power Supply

AC Adapter 65 Watt nPFC Standard USB type C[®] Straight¹⁸ AC Adapter 45 Watt nPFC Standard USB type C[®] Straight¹⁸

Primary Battery

HP Long Life 3-cell, 58 Wh Li-ion; support fast charge ^{19,20} HP Fast Charge Technology (90% in 90 minutes)²¹

Power Cord

3-wire plug - 1.0 m

Battery life

Up to 12 hours and 30minutes (Configuration: i3-1115 G4/HD/8 GB/128 GB SSD) 22

Battery Weight

8.11 oz 230 g

- 18. Availability may vary by country.
- 19. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 20. 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.
- 21. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 22. Testing conducted by HP using Google Chrome OS power LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See http://www.chromium.org/chromium-os/testing/power-testing for test details.



Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.26 lb²³ Starting at 1.48 kg ²³

Product Dimensions (w x d x h)

12.7 x 8.7 x 0.65 in 32.36 x 22.1 x 1.65 cm

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

PORTS/SLOTS

Ports

2 SuperSpeed USB Type-C® 10Gbps signaling rate (Power delivery, DisplayPort™) ²⁴ 2 SuperSpeed USB Type-A 10Gbps signaling rate ²⁴ 1 HDMI 2.0 ²⁵ 1 stereo headphone/microphone combo jack

i stereo neauphone/inicrophone combo jack

Expansion Slots

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

24. SuperSpeed USB 20Gbps is not available.

25. HDMI cable sold separately.



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. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc ²⁶

26. 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® 45 W and 65 W adapter

Nominal Operating Voltage 5V/9V/12V/15V

Average Operating Power <45 W
Integrated Graphics Yes
Discrete Graphics N/A
Max Operating Power UMA <45 W

Temperature

Operating 32° to 95° F (0° to 35° C) Non-operating 41° to 95° F (5° to 35° 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 (-15.24 to 3,048 m) Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard

Certifications

UL Yes
CSA No
FCC Compliance Yes

ENERGY STAR 8.0[®] Yes, ENERGY STAR^{® 27}

EPEAT® Yes, EPEAT® Silver in United States ²⁸

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



UKRSERTCOMPUTER

No

Technical Specifications

27. Configurations of the HP Pro c640 Chromebook G2 that are ENERGY STAR® qualified are identified as HP Pro c640 Chromebook G2 ENERGY STAR on HP websites and on http://www.energystar.gov.

28. 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.



Technical Specifications

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 45% cg 250nits Active Area

eDP NWBZ slim

Outline Dimensions (W x H x D)

316.17 x 197.98 max. (w/ PCB)

309.37 x 174.02 Weight <285g max. **Diagonal Size** 14.0 (inch) **Thickness** 3.0 mm max Interface eDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled No

600:1 - AG **Contrast Ratio Refresh Rate** 60 Hz **Brightness** 250 nit

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Backlight LED **Color Gamut Coverage** 45% **Color Depth** 6 bits

Viewing Angle UWVA 85/85/85/85

Panel LCD 14-in FHD (1920 x 1080) Anti-Glare WLED UWVA 45% cg 250nits Active Area

eDP TOP NWBZ slim

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

309.37 x 174.02 (mm)

Weiaht <290a max **Diagonal Size** 14.0 (inch)

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

Interface eDP 1.2 **Surface Treatment** Anti-glare (AG)

Touch Enabled Yes

Contrast Ratio 600:1 - AG Refresh Rate 60 Hz Brightness1 250 nit

Pixel Resolution 1920 x 1080 (FHD)

Format RGB Backlight **LED Color Gamut Coverage** 45% **Color Depth** 6 hits

Viewing Angle UWVA 85/85/85/85

Panel LCD 14-in HD (1366 x 768) Outline Dimensions (W x H x D) (315.9 +/- 0.3) x (197.54 +/- 0.5)

> **Active Area** 309.4 x 173.95 Weight 290 g max. **Diagonal Size** 14.0 (inch)

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

NWBZ flat

Anti-Glare WLED SVA 45% cg

250nits eDP 1.2 w/o PSR TOP

Technical Specifications

Interface eDP 1.2 (1 lane) **Surface Treatment** Anti-glare (AG)

Touch Enabled Yes

Contrast Ratio 400:1 - AG Refresh Rate 60 Hz Brightness1 250nit

Pixel Resolution 1366 x 768 (HD)

Format RGB Backlight LED **Color Gamut Coverage** 45% **Color Depth** 6 bits

Viewing Angle SVA 45/45/15/30

Panel LCD 14-in HD (1366 x 768) Anti-Glare WLED SVA 45% Active Area

cg 250nits eDP NWBZ ultraslim

Outline Dimensions (W x H x D)

315.9+/-0.3 x 197.54 +/- 0.5

309.4 x 173.95 (mm)

Weight 285 g max. **Diagonal Size** 14.0 (inch) **Thickness** 3.0 mm (max.) Interface eDP 1.2 (1 lane) **Surface Treatment** Anti-glare (AG)

Touch Enabled No

Contrast Ratio 300:1 - AG Refresh Rate 60 Hz **Brightness** 250 nit

Pixel Resolution 1366 x 768 (HD)

Format RGB Backlight LED Color Gamut Coverage 45% **Color Depth** 6 bits

Viewing Angle SVA 45/45/15/30

Technical Specifications

STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 5.1 GB is not user available

eMMC 64GB MO-276 MMCv5.0

Form Factor Flash memory

Capacity 64 GB

NAND Type MLC/TLC

Height 1.4mm

Width 11.5x13mm

Interface MMC protocol

Maximum Sequential Read Up to 250MB/s

Maximum Sequential Write Up to 70 MB/s

Logical Blocks 64GB (62,537,072,640 Bytes)

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

Features HS400

SSD 128GB 2230 PCIe NVMe Value

Form Factor M.2 2230
Capacity 128 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

Interface PCIe NVMe Gen3X4/Gen3x2

Maximum Sequential Readup to 2100MB/sMaximum Sequential Writeup to 1200MB/sLogical Blocks250,069,680

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

Features Pyrite



Technical Specifications

SSD 256GB 2230 PCIe NVMe Value Form Factor M.2 2230

Capacity256 GBNAND TypeTLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

Interface PCIe NVMe Gen3X4/Gen3x2

Maximum Sequential Readup to 2500MB/sMaximum Sequential Writeup to 1300MB/sLogical Blocks500,118,192

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

Features Pyrite



NETWORKING/COMMUNICATIONS

Intel® Wi-Fi 6 AX201 +
Bluetooth® 5 (802.11ax
2x2, non- vPro®,
supporting gigabit data
rate) (non- vPro®) ^{1,5}

Wireless LAN Standards

IEEE 802.11a
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ac
IEEE 802.11d
IEEE 802.11d
IEEE 802.11d

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

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: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

• 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz &

160MHz)

802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz &

160MHz)

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 802.11i

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 HE40(2.4GHz): +12dBm minimur
 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 3.3 v +/- 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)

Operating: 0 to 10,000 ft (3,048 m)

Technical Specifications

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 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1 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. 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. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. 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.



POWER

45W AC adapter Dimensions (H x W x D) 94.0 mm x 40.0 mm x 26.5 mm

> Weight 192.5g +/-10%

Input

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 5V/15W

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

DC output 5V/9V/12V/15V Hold-up time 5ms at 115 Vac input

Output current limit <5.0A Connector **C6**

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

-4°F to 185°F (-20°C to 85°C)

Non-operating (storage)

temperature

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

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

EMI and Safety Eg:

Certifications 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

65W AC adapter Dimensions (H x W x D) 90.0 mm x 51.0 mm x 28.5 mm

> Weight 250g +/-10%

Input

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

115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 88% 15V: 88% 20V: 89%

Input frequency range 47 ~ 63Hz

Input AC current

Output

Max. 1.6 A at 90 Vac

Output power 5V/15W 9V/27W

12V/60W 15V/60W 20V/65W

DC output 5V/9V/12V/15V/20V Hold-up time 5ms at 115 Vac input

Output current limit <8.0A Connector **C6**

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

> Non-operating (storage) -4°F to 185°F (-20°C 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 Eq:

Certifications 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

FINGERPRINT READER

Model: FINGERPRINTS FPC1021A

Mobile Voltage Operation: 1.62V to 1.98V (Typical 1.8V)

Operating Temperature: -40° to +85°C Current Consumption Image: < 6 mA Low Latency Wait For Finger: 2.1 mA

Capture Rate:

ESD Resistance: +/- 30kV

Detection Matrix: 160 x 160 pixels

COUNTRY OF ORIGIN

China



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

-	•	
Category	Description	Part Number
Cases	HP Prelude Pro Recycled 15.6 Backpack	1X644A6
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA, 1X644UT, 1X644ET
	HP Prelude Pro Recycled 15.6 Top Load	1X645A6
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA, 1X645UT, 1X645ET
Docking	HP USB-C® 120W G5 Dock	5TW10AA, 5TW10ET, 5TW10UT
	HP USB-C [®] /A 120W G2 Universal Dock	5TW13AA, 5TW13UT, 5TW13ET
Adapters / Cables - External - NB	HP HDMI to VGA Adapter	H4F02AA, H4F02UT, H4F02ET
	HP USB to Gigabit RJ45 Adapter	N7P47AA, N7P47UT
	HP USB-C® to DisplayPort Adapter	N9K78AA, N9K78UT
	HP USB-C® to HDMI 2.0 Adapter	2PC54AA, 1WC36UT, 1WC36AA
	HP USB-C® to RJ45 Adapter	V8Y76AA, V7W66AA, V7W66UT
	HP USB-C® to USB 3.0 Adapter	N2Z63AA, N2Z63UT
	HP USB-C® to USB-A Hub	Z8W90AA, Z6A00AA, Z6A00UT, Z6A00ET
	HP USB-C® to VGA Adapter	P7Z54AA, N9K76AA, N9K76UT
Input/Output	HP Bluetooth Travel Bluetooth Mouse	6SP30AA, 6SP30UT
	HP Comfort Grip USB Wireless Mouse	H2L63AA, H2L63UT
	HP USB 320M Wired Mouse	9VA80AA, 9VA80UT, 9VA80ET
	HP USB Fingerprint Reader USB Mouse	4TS44AA, 4TS44UT, 4TS44ET
	HP USB Premium USB Mouse	1JR32AA, 1JR32UT
	HP USB Premium Wireless Mouse	1JR31AA, 1JR31UT
	HP USB Travel USB Mouse	G1K28AA, G1K28ET
	HP Wireless 2.4GHz X4000 Bluetooth Mouse	H3T50AA, H3T50UT
	HP Multi-Device 635 Black Wireless Mouse	1D0K2AA, 1D0K2ET, 1D0K2UT
	HP Creator 935 Black Wireless Mouse	1D0K8AA, 1D0K8ET, 1D0K8UT
	HP Presenter Bluetooth 4.2 Bluetooth Mouse	2CE30AA, 2CE30UT, 2CE30ET
Power – AC Adaptor	HP 45W USB-C® G2 AC Power Adapter	1HE07AA, 1HE07UT
	HP 45W USB-C® LC AC Power Adapter	1MZ01AA
	HP 65W USB-C® Auto AC Power Adapter	5TQ76AA, 5TQ76UT, 5TQ76ET
	HP 65W USB-C ®AC Power Adapter	1HE08AA, 1HE08UT
	HP 65W USB-C® LC AC Power Adapter	1P3K6AA, 1P3K6UT
	HP 65W USB-C® Travel Slim AC Power Adapter	3PN48AA, 3PN48UT
	HP 90W USB-C® AC Power Adapter	2LN85AA
Power-Power Bank	HP USB-C® Essential Power Bank	3TB55AA, 3TB55UT
Storage-ODD	HP USB DVD-Writer EXT ODD	Y3T76AA, F2B56AA, F2B56UT, F2B56ET

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

Security HP Nano Cable Lock 1AJ39AA, 1AJ39UT

HP SureKey Standard/Nano/Wedge Cable Lock 6UW42AA, 6UW42UT

Audio/Video -External HP Wired USB-A UC SPK Phone

4VW02AA



Summary of Changes

Date of change:	Version History:		Description of change:
August 3, 2021	V1 to V2	Add	Zero Touch Enrollment in security Management
October 22, 2021	V2 to V3	Update	Software and Security section
February 28, 2022	V3 to V4	Add	Processors base frequency

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