Overview

HP Pro c645 Chromebook



Left

- 1. Microphone
- 2. Webcam LED
- 3. Webcam
- 4. Privacy Camera Latch
- 5. Touchpad

- 6. Lock slot (Lock sold separately.)
- 7. USB Super Speed Type-C® 3.2
- 8. HDMI 1.4 (HDMI cable sold separately.)
- 9. USB Type-A 3.2

Overview



Right

- 1. Power button
- 2. USB Type-A 3.2
- 3. USB Type-C® 3.2

- 4. Headphone/microphone combo
- 5. Micro SD card reader
- 6. Fingerprint sensor (Select models)

Overview

AT A GLANCE

- Choose from AMD Ryzen™ or AMD Athlon™ processors
- Up to 64 GB eMMC 5.0 or 128 GB PCle[®] NVMe[™] M.2 SSD storage to choose from
- Up to 16 GB memory and 128 GB SSD storage options
- Work farther from the Wi-Fi® router by having Wi-Fi® 6 2X2 ax WLAN with MU-MIMO and HP Extended Range Wireless Lan design
- Sleek design with aluminum cover & narrow border display
- Audio by B&O
- Privacy Camera protects your privacy from remote camera hacking
- Optional fingerprint Sensor¹ for unlock the screen in a flash
- Optional backlit keyboard¹ for working in a dark environment
- Optional touchscreen for intuitive interactions
- HP Fast Charge Technology (With optional 65W adapter)²
- One HDMI port for instant connection to display without dongles
- Undergoes MIL-STD 810H Tests³
- 1. HP Fingerprint Sensor, Backlit Keyboard and Touchscreen are optional features and require configuration at purchase.
- 2. 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 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 3. 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.



Technical Specifications

PRODUCT NAME

HP Pro c645 Chromebook

OPERATING SYSTEM

Preinstalled

Chrome OS™ 64

PROCESSOR

AMD Athlon™ Gold 3150C with Radeon™ Graphics (2.4 GHz base clock, up to 3.3 GHz max boost clock, 4 MB L3 cache. 2 cores) 1,2,3,4

AMD Athlon™ Silver 3050C with Radeon™ Graphics (2.3 GHz base clock, up to 3.2 GHz max boost clock, 4 MB L3 cache, 2 cores) 1,2,3,4

AMD Ryzen™ 3 3250C with Radeon™ Graphics (2.6 GHz base clock, up to 3.5 GHz max boost clock, 4 MB cache, 2 cores) 1,2,3,4

AMD Ryzen[™] 5 3500C with Radeon[™] Graphics (2.1 GHz base clock, up to 3.7 GHz max boost clock, 4 MB L3 cache, 4 cores) ^{1,2,3,4}

AMD Ryzen[™] 7 3700C with Radeon[™] Graphics (2.3 GHz base clock, up to 4.0 GHz max boost clock, 4 MB L3 cache, 4 cores) ^{1,2,3,4}

Processor Family

AMD Ryzen™ 3 processor AMD Ryzen™ 5 processor AMD Ryzen™ 7 processor AMD Athlon™ Gold processor AMD Athlon™ Silver 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. AMD's numbering is not a measurement of clock speed.
- 2. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 3. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
- 4. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.



Technical Specifications

CHIPSET

Integrated with processor

GRAPHICS

Integrated
AMD Radeon™ Graphics
AMD Radeon™ Graphics

Supports

Support HD Decode, DX12, and HDMI 1.4b5

5. HDMI cable sold separately.

DISPLAY

Non-Touch

35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, 250 nits, 45% NTSC ^{6,7} 35.6 cm (14") diagonal, HD (1366 x 768), micro-edge, anti-glare, 250 nits, 45% NTSC^{6,7}

Touch

35.6 cm (14") diagonal, FHD (1920 x 1080), touch, IPS, micro-edge, anti-glare, 250 nits, 45% NTSC 6,7,8 35.6 cm (14") diagonal, HD (1366 x 768), touch, micro-edge, anti-glare, 250 nits, 45% NTSC 6,7,8

HDMI

HDMI v1.4b

Supporting: up to 1920x1080

Displays support

Support extended displays through HP docks9

Display Size

14"

35.56 cm (14")

- 6. FHD/HD content required to view FHD/HD images.
- 7. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 8. Actual brightness will be lower with touchscreen or Sure View.
- 9. Docks are sold separately.



Technical Specifications

STORAGE AND DRIVES

Primary Storage

32 GB eMMC 5.0¹⁰ 64 GB eMMC 5.0¹⁰ SSD 128GB 2230 PCIe NVMe Value¹⁰

Primary M.2 Storage

128 GB PCIe® NVMe™ M.2 SSD¹⁰

10. 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 DDR4-2666 SDRAM

Memory 4 GB DDR4-2666 SDRAM 8 GB DDR4-2666 SDRAM 16 GB DDR4-2666 SDRAM

Note: Transfer rates up to 2666 MT/s.

Memory Slots On-board system memory Supports Single Channel Memory (Athlon) Supports Dual Channel Memory (Ryzen)

NETWORKING/COMMUNICATIONS

WLAN

Intel® AX200 Wi-Fi® 6 (2x2) and Bluetooth® 5 combo¹¹

Chromecast

Chromecast Support¹²

11. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for Wi-Fi 6 (802.11ax WLAN) are draft specifications and are not final. If the final specifications differ from the draft specifications, it

may affect the ability of the notebook to communicate with other 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.

12. Chromecast must be purchased separately.



Technical Specifications

AUDIO/MULTIMEDIA

Audio Audio by B&O

Dual stereo speakers

Camera

720p HD camera6

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

KEYBOARD / POINTING DEVICES

Keyboard

Spill-resistant, full-size, optional backlit, pike silver Chrome keyboard¹³

Pointing Device

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

13. Backlit keyboard is an optional feature.

SOFTWARE AND SECURITY

Preinstalled Software

Chrome Educational Upgrade (Optional)14

Manageability Features

Chrome Enterprise Upgrade (Optional) 15

Security Management

Google Titan C

Nano Security Lock Slot¹⁶

Fingerprint sensor (Select models)

- 14. Chrome Educational Upgrade is sold separately.
- 15. Chrome Enterprise Upgrade requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see https://support.google.com/a/answer/60216.
- 16. Locks are sold separately.



Technical Specifications

POWER

Power Supply

HP Smart 65 W USB Type-C adapter¹⁷ HP Smart 45 W USB Type-C adapter¹⁷

Primary Battery

HP Long Life 3-cell, 58 Wh Li-ion¹⁸
HP Fast Charge Technology (90% in 90 minutes)¹⁹ **Power Cord**

3-wire plug - 1.0m

Battery life

Up to 13 hours and 15 minutes (Athlon gold 3050C/HD/8GB memory/64GB eMMC)²⁰

Battery Weight 220 g 0.49 lb

- 17. Availability may vary by country.
- 18. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 29. 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.
- 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.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.38 lb²¹ Starting at 1.54 kg²¹

Product Dimensions (w x d x h)

12.75 x 8.7 x 0.64 in 32.4 x 22.1 x 1.65 cm

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



Technical Specifications

PORTS/SLOTS

Ports

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

2 Super Speed USB Type-A 5Gbps signaling rate

1 Headphone/microphone combo

1 HDMI 1.4²²

22. HDMI cable sold separately.

Expansion Slots

1 Micro SD multi-format digital media reader

SERVICE AND SUPPORT

HP Services offers 1-year and 3-year limited warranties and 90 day software limited warranty options depending on country. Refer to https://www8.hp.com/us/en/privacy/limited_warranty.html for additional battery information. On-site service and 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.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	USB-C 45W and 65W adapter		
	Nominal Operating Voltage	5V/9V/12V/15V	
	Average Operating Power	< 45W	
	Integrated Graphics	Yes	
	Max Operating Power	UMA < 45W	
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®	Yes ²⁴	
	EPEAT® 2019	Yes ²⁵	
	ICES	Yes	
	Australia /	Yes	
	NZ A-Tick Compliance	Yes	
	ССС	Yes	
	Japan VCCI Compliance	No	
	KC	Yes	
	BSMI	Yes	
	CE Marking Compliance	Yes	
	BNCI or BELUS	No	
	CIT	No	
	GOST	Yes	

24. Configurations of the HP Pro c645 Chromebook that are ENERGY STAR® certified are identified as HP Pro c645 Chromebook ENERGY STAR on HP websites and on http://www.energystar.gov.

Yes

Yes

No

Saudi Arabian Compliance (ICCP)

UKRSERTCOMPUTER

SABS



Technical Specifications

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.



Technical Specifications

DISPLAYS

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

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

Panel LCD 14 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP slim Touch on Panel NWBZ

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

 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.

Interface eDP 1.2

Surface Treatment Anti-glare (AG)

Touch Enabled Yes

Contrast Ratio 600:1 (typ)
Refresh Rate 60Hz

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

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

Viewing Angle UWVA 85/85/85

Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP NWBZ slim

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

Active Area 309.37 x 174.02
Weight <285g max
Diagonal Size 14.0"
Thickness 3.0mm max.

Interface eDP 1.2
Surface Treatment Anti-glare (AG)

Touch EnabledNoneContrast Ratio600:1 (typ)Refresh Rate60HzBrightness250nit typ.

Pixel Resolution 1920 x 1080 (FHD)

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

Viewing Angle UWVA 85/85/85



Technical Specifications

Panel LCD 14-in HD (1366x768) 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 + /-0.3) * (197.54 + /-0.5)

Active Area 309.4 x 173.95 typ.

Weight 290g Max Diagonal Size 14."

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

InterfaceeDP 1.2Surface TreatmentAGTouch EnabledYES

Contrast Ratio400:1 (Typ)Refresh Rate60HzBrightness250nits1

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 (1366x768) 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 AG

Touch Enabled None

Contrast Ratio 300:1 (typ)

Refresh Rate 60Hz

Brightness 250nits

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

32 GB eMMC

Drive Weight0.2gRotation speed32GBCache Buffer1.4mmHeight11.5x13mmWidthMMC potocal

Interface

Transfer Rate Up to 250 MB/s Seek Time Up to 70 MB/s

Logical Blocks 31,268,536,320 Bytes

Operating Temperature 0 to 70 **Security Features** HS400

64 GB eMMC

Drive Weight0.2gRotation speed64GBCache Buffer1.4mmHeight11.5x13mmWidthMMC potocal

Interface

Transfer Rate Up to 250 MB/s Seek Time Up to 70 MB/s

Logical Blocks 62,537,072,640 Bytes

Operating Temperature 0 to 70 **Security 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)

 Weight
 0.01 lb (5 g)

 Interface
 PCIe NVMe Gen3X4

 Maximum Sequential Read
 Up to 1500 MB/s

Maximum Sequential Write UP to 600 MB/s Logical Blocks 250,069,680

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

Features TRIM; L1.2



Technical Specifications

NETWORKING/COMMUNICATIONS

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 802.11e
IEEE 802.11h
IEEE 802.11h
IEEE 802.11i
IEEE 802.11t
IEEE 802.11r
IEEE 802.11v

Interoperability Features Wi-Fi® 6 technology

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 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 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 Power⁴ • 802.11b: +18.5dBm minimum

Technical Specifications

• 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum

802.11n HT20(2.4GHz): +15.5dBm minimum
802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum
802.11n HT40(5GHz): +14.5dBm minimum
802.11ac VHT80(5GHz): +11.5dBm minimum
802.11ac VHT160(5GHz): +11.5dBm minimum
802.11ax HT40(2.4GHz): +10dBm minimum

• 802.11ax VHT160(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/Modern Standby: 10mW

· Radio disabled: 8 mW

Power Management

ACPI and PCI Express compliant power management 802.11 compliant

power saving mode

Receiver Sensitivity⁵

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

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

802.11ax, MCS11(HT40): -59dBm maximum
802.11ax, MCS11(VHT160): -58.5dBm 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: 2.8 g

2. Type 126: 1.3 g

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)

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

Non-operating 0 to 50,000 ft (15,240 m)

Technical Specifications

LED Activity

LED Amber – Radio OFF LED Off – Radio ON

- 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.
- 2. Wi-Fi supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
- 3. Check latest software/driver release for updates on supported security features.
- 4. 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.
- 5. 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).

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

Channels

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

Signaling Data Rate Legacy: 3 Mbps signaling data rate⁶ 2.17 Mbps

BLE: 1 Mbps signaling data rate⁶ 0.2 Mbps

6. Actual throughput may vary.

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.



Technical Specifications

POWER

HP 3-cell Long Life Li-Ion (58 WHr)

Dimensions (H x W x L) 4.7 x 249 x 103.07 mm (0.183 x 9.72 x 4.02 inch)

Weight 0.23 kg (0.506 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 407792

Energy

Voltage 11.55V Amp-hour capacity 5.095Ah Watt-hour capacity 58.84Wh

Temperature

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

Fuel Gauge LED N/A
Warranty 1-year
Optional Travel Battery Available No

HP Smart 65 W USB Type-C adapter

Dimensions 3.54x2.0x1.12in (9.0 x 5.1 X 2.85cm)

Weight

unit: 0.51 lbs (235q)

Input 100 to 240 VAC

Input Efficiency

81.5% min at 115 Vac/ 230Vac @ 5V/3A 86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 20V/3.25A 89% min at 115 Vac/ 230Vac @ 15V/4.33A

Input frequency range 47 ~ 63 Hz

Input AC current

Output

1.6 A at 90 VAC and maximum load

Output power 65W

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

Hold-up time 5ms at 115 Vac input by each output voltage

Output current limit8.0A MaximumConnectorUSB TYPE-C®

Environmental Design

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

Non-operating (storage)

temperature -4°F to 185°F (-20°to 85°C)

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

Humidity 20% to 95%



Technical Specifications

Storage Humidity

10% to 95%

EMI and Safety 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.

HP Smart 45 W USB Type-C adapter

Dimensions 3.74x1.69x1.08 in (9.5*4.3*2.75cm)

Weight

unit: 0.45 lbs (200g)

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%

Input frequency range

47 ~ 63 Hz

Input AC current

.

Output

DC output

Max. 1.4 A at 90 Vac

Output power 45W

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

Environmental Design

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

Non-operating (storage)

-4°F to 185°F (-20°to 85°C) **Altitude**-4°F to 185°F (-20°to 85°C)

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

 Humidity
 20% to 95%

 Storage Humidity
 10% to 95%

EMI and Safety 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

FINGER PRINT READER

FINGERPRINTS FPC1025

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

Operating Temperature: -40° to +85°C

Current Consumption Image: < 6 mALow Latency Wait For Finger: 2.1 mA

Capture Rate:

ESD Resistance: +/- 30kV

Detection Matrix:

160 x 160 pixels

FRR (False Reject Rate) / FAR (False Acceptance Rate):

COUNTRY OF ORIGIN

China



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

Category	Description	Part Number	
Cases	HP Prelude Pro Top Load	1X645AA	
	HP Prelude Pro Backpack	1X644AA	
	HP Business Backpack (17.3")	2SC67AA	
	HP Business Case (15.6")	2SC66AA	
	HP Business Slim Top Load (14.1")	2SC65AA	
	HP 14.1 Business Sleeve	2UW01AA	
	HP 13.3 Business Sleeve	2UW00AA	
Docking	HP USB Type-C /A Universal Dock G2	5TW13AA	
Input/Output	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA	
	HP Slim Wireless Keyboard & Mouse	T6L04AA	
	HP Wired Desktop 320K Keyboard	9SR37AA	
	HP Slim Wireless Keyboard	T6U20AA	
	HP 3-Button USB Laser Mouse	H4B81AA	
	HP Comfort Grip Wireless Mouse	H2L63AA	
	HP Wired Desktop 320M Mouse	9VA80AA	
	HP USB Optical Travel mouse	G1K28AA	
	HP Bluetooth Travel Mouse	6SP30AA	
	HP Essential USB Mouse	2TX37AA	
	HP USB Type-C to HDMI 2.0 Adapter	1WC36AA	
	HP USB Type-C to USB HUB	Z6A00AA	
	HP USB to RJ45 Adapter	N7P47AA	
	HP USB Type-C Travel Dock G2	7PJ38AA	
	HP USB Type-C to VGA Adapter	N9K76AA	
Power	HP 45W USB-C G2 Power Adapter	1MZ01AA#ABA	
	HP 65W USB Type-C Slim Power adapter	3PN48AA	
	HP USB-C Essential Power Bank	3TB55AA	
Storage	HP External USB Optical Drive	F2B56AA	
Security	HP Nano Keyed Cable Lock	1AJ39AA	
	HP Sure Key Cable Lock	6UW42AA	



Summary of Changes

Date of change:	Version History:		Description of change:
	V1 to V2		Storage section updated
February 4, 2021	V2 to V3	Update	Battery Life
March 2, 2021	V3 to V4	Update	Options and Accessories section
	V4 to V5		

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