Overview

HP Chromebook 11A G6 EE

1. Webcam LED
2. Webcam

3. Internal Microphone
4. Touchpad

Left

5. USB 2.0
6. USB Type-C™ 3.1 Gen1 Port (Supports Power Delivery +Display Port™)
7. Nano Security Lock Slot (Lock sold separately)

Overview

Right

1. Power Button
2. USB Type-C™ 3.1 Gen1 port (Supports Power Delivery +Display Port™)
3. USB 2.0

4. Micro SD Card Reader
5. Stereo Headphone/Microphone combo jack

QuickSpecs

HP Chromebook 11A G6 EE

Overview

AT A GLANCE

- <19 mm thin and rugged design for durability
- Enjoy affordable, convenient mobile productivity with AMD A4 processor
- Designed to pass MIL STD 810G tests[1]
- 2 USB-C™ ports (Supports Power Delivery +Display Port™)
- Choice of up to 32 GB eMMc storage
- Spill and pick resistant keyboard
- School-day battery life[3] and spend less time charging with HP Fast Charge technology[2]
- 180 degree hinge and optional HD IPS Touchscreen for collaboration
- Enjoy Android™ Apps* on Chrome OS™[4]
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later
- Qualcomm® 2x2 AC WLAN with MIMO for easy connection in dense classroom environment

1. MIL STD 810G testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
2. Recharges your battery up to 90% within 90 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 90% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance.
   *Apps may require purchase
3. 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.
4. The availability of Chrome OS System supporting Android Apps is dependent on Google's Chrome OS support, readiness timeline will be announced by Google https://sites.google.com/a/chromium.org/dev/chromium-os/chrome-os-systems-supporting-android-apps.

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

Technical Specifications

PRODUCT NAME

HP Chromebook 11A G6 Education Edition

OPERATING SYSTEM

Preinstalled   Chrome OS™

PROCESSOR

AMD A4-9120C APU with Radeon™ R4 Graphics (1.6 GHz base clock, up to 2.4 GHz max boost clock, 1 MB cache, 2 cores) [4,5,6]

Processor Family
AMD® A-Series processor

4. 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.
5. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
6. AMD Max Boost Clock performance varies depending on hardware, software and overall system configuration.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated
AMD Radeon™ R4 Graphics

Supports
Support HD Decode, DX12, and HDMI 1.4b

QuickSpecs

Technical Specifications

DISPLAY

Internal
Non-Touch
29.46 cm (11.6") diagonal HD SVA anti-glare WLED-backlit, 220 cd/m², 67% sRGB (1366 x 768)[7,9,10]
29.46 cm (11.6") diagonal HD IPS anti-glare WLED-backlit, 220 cd/m², 69% sRGB (1366 x 768)[7,8,9,10]

Touch
29.46 cm (11.6") diagonal HD IPS Brightview WLED-backlit slim touch screen, 220 cd/m², 69% sRGB (1366 x 768) [7,8,9,10]

7. HD content required to view HD images.
8. Sold separately or as an optional feature.
9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
10. All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

STORAGE AND DRIVES

Primary Storage
16 GB eMMC 5.0[11]
32 GB eMMC 5.0[11]

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

MEMORY

Maximum Memory
4 GB DDR4-1866 SDRAM

Memory
4 GB DDR4-1866 SDRAM

Memory Slots
Memory soldered down

Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN
Qualcomm® Wireless-AC 802.11a/b/g/n/ac (*2x2*) WLAN and Bluetooth® 4.2 Combo, non-vPro™[12].

Chromecast
Chromecast Support[13]

NOTE: MU-MIMO supported.

12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
13. Chromecast must be purchased separately.

AUDIO/MULTIMEDIA

Audio
HD Audio
Dual speakers
Integrated microphone

Camera
720p HD camera[7]

7. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Full-sized island-style, spill resistant, pick resistant

Pointing Device
Clickpad with multi-touch gesture support

SOFTWARE AND SECURITY

Preinstalled Software
Store up to 100 GB with Google Drive (2-year subscription included)[14]
HP Classroom Manager[15]

Security Management
H1 Security IC
Nano Security lock slot[16]

14. Google Drive offer is tied to this device and is non-transferable. If this device is returned, the extra storage will be revoked. In order to redeem this offer, you will need to be on Chrome OS™ 23 or later. Internet access is required and not included. Additional information about storage plan refunds, renewals, cancellations and expiration is available at the Google website: https://support.google.com/chromebook/answer/2703646?hl=en
15. HP Classroom Manager is sold separately. Control and device locking from the teacher's desktop requires purchase of HP Classroom Manager.
16. Lock must be purchased separately.

Technical Specifications

POWER

Power Supply[19]
HP Smart 45 W USB Type-C™ AC power adapter[17]

Primary Battery
HP Long Life 2-cell, 47.36 Wh Li-ion polymer[18,20]
HP Fast Charge Technology (90% in 90 minutes)[21]

Power Cord
3-wire plug - 1m[17]

Battery life
Up to 10 hours[19]

Battery Weight
0.39 lb
0.18 kg

17. Availability may vary by country.
18. Battery is internal and not replaceable by customer. Serviceable by warranty.
19. 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.
20. 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.
21. Recharges your battery up to 90% within 90 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 90% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance.

ENVIRONMENTAL

Eco-Label Certifications & declarations	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®
- EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country.
- TCO Certified 5.0.

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 (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz

Technical Specifications

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Sort idle)	3.92 W	4.04 W	3.96 W
Normal Operation (Long idle)	1.86 W	1.88 W	1.86 W
Sleep	0.53 W	0.53 W	0.53 W
Off	0.47 W	0.47 W	0.47 W

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

*Note: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	16.8	24
Fixed Disk – Random writes	16.8	24

Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 3 USB ports • 1 PC card slot (type I/II) • 1 ExpressCard/54 slot • 1 IEEE 1394 Port • 2 SODIMM memory slots • Optional expansion base docking station • 1 multi-bay II storage port • Interchangeable HDD

Technical Specifications

Batteries	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production. This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium
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 http://www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product contains 2.5% post-consumer recycled plastic (by wt.) • This product is 97.6% recycle-able when properly disposed of at end of life.

Packaging Materials	**External:**	PAPER/Corrugated	225 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	40 g
		PLASTIC/Polyethylene low density – LDPE	31 g
		PAPER/Paper	7 g

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/pdf/gse.pdf: • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • 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 Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT)

Technical Specifications

• 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 and Recycling	Hewlett-Packard 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.
Hewlett-Packard Corporate Environmental Information	For more information about HP's commitment to the environment: 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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K_Certificate.pdf and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

WEIGHTS & DIMENSIONS

Product Weight
Starting at 2.81 lbs[22]
Starting at 1.28 kg[22]

Product Dimensions (w x d x h)
12.04 x 8.18 x 0.71 in
30.6 x 20.8 x 1.81 cm

Technical Specifications

22. Weight will vary by configuration.

PORTS/SLOTS

Ports
2 USB 3.1 Type-C™ Gen 1 (Supports Power Delivery +Display Port™)
2 USB 2.0
1 Stereo Headphone/Microphone Combo Jack

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

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. [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 (AC Power)	USB-C 45W 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

Technical Specifications

ENERGY STAR®	Yes[24]
EPEAT®	Yes[25]
ICES	Yes
Australia	Yes
NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	No
KC	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	No
CIT	No
EAC	Yes
Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes
UKRSERTCOMPUTER	No

24. Configurations of the HP Chromebook 11A G6 EE that are ENERGY STAR® certified are identified as HP Chromebook 11A G6 EE ENERGY STAR® on HP websites and on http://www.energystar.gov.

25. EPEAT® registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options.

Technical Specifications

DISPLAYS

11.6 inch HD (1366 x 768) Anti-Glare WLED SVA 45percent cg 220 nits		
Outline Dimensions (W x H x D)	268.5 x 173.48 x 3.0mm	
Active Area	256.125 x 144mm	
Weight	210g max	
Diagonal Size	11.6 inch	
Thickness	3.0mm	
Interface	eDP1.2	
Surface Treatment	AG	
Touch Enabled	None	
Contrast Ratio	400:1	
Refresh Rate	60Hz	
Brightness	220 nits typical	
Pixel Resolution	1366 x 768 (HD)	
Format	RGB	
Backlight	LED	
Color Gamut Coverage	45%	
Color Depth	6bit + FRC	
Viewing Angle	SVA 45/45/15/35	

11.6 inch HD (1366 x 768) Anti-Glare WLED UWVA 50percent cg 220 nits eDP slim		
Outline Dimensions (W x H x D)	278.5 x 168.5 x 3.0 mm	
Active Area	256.125 x 144 mm	
Weight	200g max	
Diagonal Size	11.6 inch	
Thickness	3.0mm max	
Interface	eDP1.2	
Surface Treatment	AG	
Touch Enabled	None	
Contrast Ratio	800:1	
Refresh Rate	60Hz	
Brightness	220 nits typical	
Pixel Resolution	1366 x 768 (HD)	
Format	RGB	
Backlight	LED	
Color Gamut Coverage	50%	
Color Depth	6bits + FRC	
Viewing Angle	UWVA 85/85/85/85	

Technical Specifications

11.6 inch HD (1366 x 768) BrightView WLED UWVA 50percent cg 220 nits eDP 1.2 w/o PSR slim TOP

Outline Dimensions (W x H x D)	278.5 x 168.52 x 3.2 mm
Active Area	256.125 x 144 mm
Weight	200g max
Diagonal Size	11.6 inch
Thickness	3.2mm
Interface	eDP1.2
Surface Treatment	BV
Touch Enabled	Yes
Contrast Ratio	800:1
Refresh Rate	60Hz
Brightness	220nit typical
Pixel Resolution	1366 x 768 (HD)
Format	RGB
Backlight	LED
Color Gamut Coverage	50%
Color Depth	6bits + FRC
Viewing Angle	UWVA 85/85/85/85

QuickSpecs

Technical Specifications

STORAGE

emmc 5.0		
	Drive Weight	0.2g
	Height	1.4mm
	Width	11.5 x 13mm
	Interface	MMC protocol
	Transfer Rate	HS400
	Logical Blocks	16 GB (15,758,000,128 Bytes) /32GB (31,268,536,320 Bytes)
	Operating Temperature	0 to 70 degree

NETWORKING

802.11a/b/g/n/ac (2x2) WLAN and Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
Interoperability	QCA6174A passed Google AVL tests for Wi-Fi/BT	
Frequency Band	IEEE 802.11a/b/g/n/ac (2.4GHz and 5GHz)	
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps	
	802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	802.11n: MCS 0 ~ MCS 15, (20/40/80 MHz)	
	802.11ac: MCS 0 ~ MCS 9, (20/40/80 MHz), 1x1/2x2	
Modulation	CCK, DQPSK, DBPSK for DSSS	
	64QAM, 16QAM, QPSK, BPSK for OFDM	
	256QAM for OFDM in 11ac mode and VHT (20/40) mode	

Security[3]
- 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.
- IEEE 802.11i

Network Architecture Models — Infrastructure (Access Point Required)

Roaming — IEEE 802.11 compliant roaming between access points

Output Power[2]
- 802.11b: +17dBm minimum
- 802.11g: +14dBm minimum
- 802.11a: +9dBm minimum
- 802.11n HT20(2.4GHz): +14dBm minimum
- 802.11n HT40(2.4GHz): +14dBm minimum
- 802.11n HT20(5GHz): +7dBm minimum
- 802.11n HT40(5GHz): +7dBm minimum
- 802.11ac HT20(5GHz): +6dBm minimum
- 802.11ac HT40(5GHz): +5dBm minimum
- 802.11ac HT80(5GHz): +5dBm minimum

Power Consumption — Transmit: 2.0 W (max) / Receive: 1.6 W (max) / Idle mode: 60 mW

Power Management — ACPI and PCI Express compliant power management

Technical Specifications

Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Two embedded 2.4 GHz antennas are provided to the card to support WLAN and Bluetooth communications
	(Support Dual antenna or Single antenna, depend on platform requirement)
Receiver Sensitivity[3]	802.11b, 11Mbps: -84dBm maximum
	802.11g, 54Mbps: -70dBm maximum
	802.11a, 54Mbps: -70dBm maximum
	802.11n 2.4g, HT20: -69dBm maximum
	802.11n 2.4g, HT40: -67dBm maximum
	802.11n 5g, HT20: -68dBm maximum
	802.11n 5g, HT40: -66dBm maximum
	802.11n 5g, HT20: -63dBm maximum
	802.11n 5g, HT40: -59dBm maximum
	802.11n 5g, HT80: -56dBm maximum
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm
Weight	Type 2230: 2.3g
Operating Voltage	3.3v +/- 5%
Temperature	Operating: 32° to 149° F (0° to 65° C)
	Non-operating: −40° to 185° F (−40° to 85° C)
Humidity	Operating 10% to 90% (non-condensing)
	Non-operating 5% to 95% (non-condensing)
Subtitle	**Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology**
Bluetooth Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available	Legacy: 0~79 (1 MHz/CH)
Channels	BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps Signaling Data Rate 2.17 Mbps
	BLE: 1 Mbps Signaling Data Rate 0.2 Mbps
	1. Actual throughput may vary.
	Legacy: Synchronous Connection Oriented links, 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 + 4 dBm for BR and EDR.

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.

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.

QuickSpecs

Technical Specifications

POWER

45W PD AC adapter	**Dimensions** (H x W x D)	94 x 43 x 27.8mm	
	Weight	200g	
	Input	100 to 240 VAC	
		Input Efficiency	5V/81.5%; 9V/86.7%; 12V/87.4%; 15V/87.8% (measured at 115Vac/60Hz and 230Vac/50Hz)
		Input frequency range	47 ~ 63 Hz
		Input AC current	1.4 Amperes RMS at 90 VAC
	Output	**Output power**	45W
		DC output	5V; 9V; 12V; 15V
		Hold-up time	5ms at 115 Vac input
		Output current limit	The power supply shall limit the maximum steady state output current to an average current of 5 Amperes. (OCP Interval: 30mS Minimum)
	Connector	USB Type-C™	
	Environmental Design	**Operating temperature**	32°F to 95°F (0°C to 35°C)
		Non-operating (storage) temperature	-4°F to 185°F (-20°C to 85°C)
		Altitude	1 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, 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 2-cell Long Life Li-Ion (47 Whr)	**Dimensions**	5.23 x 240.8 x 76.4 mm (0.206 x 9.48 x 3 inch)	
	Weight	0.19 kg (0.42 lb)	
	Cells/Type	2cell Lithium-Ion Polymer cell / 4473A9	
	Voltage	7.7V	
	Amp-hour capacity	6.15Ah	
	Watt-hour capacity	47Wh	
	Operating (Charging)	32˚ to 113˚F (0˚ to 45˚ C)	
	Operating (Discharging)	14˚ to 122˚F (-10˚ to 60˚ C)	
	Optional Travel Battery Available	No	

COUNTRY OF ORIGIN

Technical Specifications

China

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

Type	Description	Part number
Cases	HP Business Slim Top Load	2SC65AA
	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Black 11.6 Always on Case	2MY57AA
Docking	HP USB-C Mini Dock	1PM64AA
Input/Output	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to USB 3.0 Adapter	N2Z63AAA#xxx
	HP USB-C to RJ45 Adapter	V7W66AA
	HP 3-Button Laser Mouse	H4B81AA#xxx
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP USB Optical Travel mouse	G1K28AA
	HP Essential USB Mouse	2TK37AA#xxx
	HP Slim Bluetooth Mouse	F3J92AA#xxx
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP Slim USB KB & Mouse	T6T83AA
Power	HP USB-C Notebook Power Bank	1TZ76AA
	HP 45W Type -C Straight Type	1MZ01AA#ABA
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
UCC	Stereo 3.5mm Headset	T1A66AA
Displays	HP ProDisplay P240va 23.8 inch Monitor	N3H14AA
	HP ProDisplay P232 23 inch Monitor	K7X31AA
	HP EliteDisplay E223 21.5 inch Monitor	1FH45AA
	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA

Summary of Changes

Date of change	Version History	Change	Description of change
February 19, 2019	V1 to V2	Updated	Processors Section
February 21, 2019	V2 to V3	Added	Environmental Tab
March 1, 2019	V3 to V4	Updated	Docking
April 23, 2019	V4 to V5	Added	Networking Section: Chromecast
	V5 to V6		
	V6 to V7		
	V7 to V8		
	V8 to V9		