Overview

HP Chromebook x360 11 G2 EE



- 1. Webcam LED
- 2. Webcam
- 3. Internal Microphones
- 4. Touchpad
- 5. 5 MP Camera (Optional)

Left

- 6. Volume Button
- 7. Power Button
- 8. USB-A 3.1 Gen 1
- 9. USB-C[™] 3.1 Gen 1 (Supporting Power Delivery and Display Port)
- 10. Nano Kensington Lock

Overview



Right

- USB-C[™] 3.1 Gen 1 (Supporting Power Delivery and Display 4. Port)
- MicroSD Card Reader

2. Power LED

. Stereo Headphone / Microphone Combo Jack

3. USB-A 3.1 Gen 1

Overview

AT A GLANCE

- Latest Intel® Celeron® N4000 and N4100 processors
- The device is designed to pass MIL-STD 810G, 76cm drop on concrete, and minor water and dust resistance¹
- Long battery life with HP Fast Charge technology to support charge 90 minutes to 90%
- Designed to survive the school day activities with pick-proof and spill-resistant keyboard
- Intel® 2x2 AC WLAN with MIMO for easy connection in dense classroom environment
- Choice of up to 8 GB memory and 64 GB eMMc storage
- 2 USB-C™ ports for charging, power and data transfer, and 2 USB 3.1 Gen 1 ports for sleep and charge support
- Enjoy Android™ Apps on Chrome OS™2
- Optional active digitizer along with EMR pen³
- Your Chromebook boots up within 10 seconds and you can be browsing online and working in Google Apps just moments later
- Flexible 360°hinge to allow students to type, touch, write, capture, and draw comfortably whether in laptop, tablet, tent or stand mode
- 1. MIL STD 810 G 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. The availability of Chrome OS System supporting Android Apprils dependent on Google's Chrome OS system supporting Android Apprils dependent on Google's Chrome OS system supporting Android Apprils dependent on Google's Chrome OS system supporting Android Apprils dependent on Google's Chrome OS system support readings.
- 2. 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.
- 3. Optional pen required and sold separately; pen requires optional digitizer feature that must be configured at time of purchase.

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



PRODUCT NAME

HP Chromebook x360 11 G2 Education Edition

OPERATING SYSTEM

Preinstalled

Chrome OS™

PROCESSOR

Intel® Celeron® processors

Intel® Celeron® N4100 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.4 GHz boost frequency, 4 MB cache, 4 cores)^{1,2}

Intel® Celeron® N4000 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.6 GHz boost frequency, 4 MB cache, 2 cores)^{1,2}

Processor Family

Intel® Celeron® processors

- 1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 2. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics 6003

Supports

Supports HD decode, DX12 and HDMI 1.4 b

3. HD content required to view HD images.



DISPLAY

Touch

29.46 cm (11.6") diagonal HD IPS BrightView WLED-backlit TOP+ touch screen with Corning® Gorilla® Glass 3, 220 cd/m², 69% sRGB $(1366 \times 768)^{3,4}$

29.46 cm (11.6") diagonal HD IPS BrightView WLED-backlit TOP+ touch screen with Corning® Gorilla® Glass 3 and Digitizer, 220 cd/m², 69% sRGB (1366 x 768)^{3,4,5}

- 3. HD content required to view HD images.
- 4. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 5. Sold separately or as an optional feature.

STORAGE AND DRIVES

Primary Storage

32 GB eMMC 5.0⁶ 64 GB eMMC 5.0⁶

6. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 5.1 GB is reserved for system recovery software.

MEMORY

Maximum Memory

8 GB LPDDR4-2400 SDRAM

Memory

8 GB LPDDR4-2400 SDRAM 4 GB LPDDR4-2400 SDRAM

Memory soldered on board

NETWORKING/COMMUNICATIONS

WLAN

Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) WLAN and Bluetooth® 5 Combo, non-vPro™, MU-MIMO/80 Mhz⁷ Integrated Wireless options with dual antennas

Chromecast

Chromecast Support⁸

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



AUDIO/MULTIMEDIA

Audio

Dual Speakers Integrated Microphone HD Audio

Camera

720p HD Camera³

5 MP Rear Camera (World Facing secondary camera, Fixed Focus)⁵

- 3. HD content required to view HD images.
- 5. Sold separately or as an optional feature.

KEYBOARDS/TOUCHPAD

Keyboard

Full Size Textured island-style, spill-resistant and pick proof anchored, Chalkboard Gray, Keyboard

Pointing Device

Touchpad with multi-touch gesture support

SOFTWARE AND SECURITY

Preinstalled Software

Google One⁹ HP Classroom Manager¹⁰

Security Management

H1 Security IC Nano Security lock slot¹¹

9. Additional information is available at the Google website: https://one.google.com/about.

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

11. Lock must be purchased separately.

POWER

Power Supply

HP Smart 45 W Type-C[™] AC Power Adapter¹²

Primary Battery

HP Long Life 2-cell, 47.36 Wh Li-ion Polymer¹³ HP Fast Charge Technology (90% in 90 minutes)¹⁵

Power Cord

1.0 M Length Sticker Conventional Power Cord¹²



Battery life

Up to 11 hours and 30 minutes¹⁴

Battery Weight

0.18 kg 0.39 lb

- 12. Availability may vary by country.
- 13. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 14. 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.
- 15. 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.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.24 lbs¹⁶ Starting at 1.47 kgs¹⁶

Product Dimensions (W x D x H)

12.04 x 8.18 x 0.83 in 30.6 x 20.8 x 2.11 cm

16. Weight will vary by configuration.

PORTS/SLOTS

Ports

2 USB 3.1 Type-C[™] (Charge and video support, data transfer, power delivery) 2 USB 3.1 Gen 1 (Sleep and Charge support)

1 Stereo Headphone / Microphone Combo Jack

Expansion Slots

1 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 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.17

17. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your



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

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.

ENVIRONMENTAL & INDUSTRY

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 l your country. TCO	• EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. TCO			
System Configuration	The configuration used for the E Notebook model is based on a "Ty	Energy Consumption and Declared In prically Configured Notebook".	Noise Emissions data for the		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz		
Normal Operation (Short idle)	2.79 W	2.80 W	2.72 W		
Normal Operation (Long idle)	0.87 W	0.92 W	0.85 W		
Sleep	0.33 W	0.34 W	0.34 W		
Off	0.31 W	0.32 W	0.32 W		
	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, 60Hz		
Normal Operation (Short idle)	10 BTU/hr	10 BTU/hr	9 BTU/hr		



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

Normal Operation (Long idle)	3 BTU/hr	3 BTU/hr	3 BTU/hr	
(Long late)				
Sleep	1 BTU/hr	1 BTU/hr	1 BTU/hr	
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr	
	Heat dissipation is calculated base	d on the measured watts, a	assuming the service level is attained	
	for one hour.			
Declared Noise	Sound Power		Sound Pressure	
Emissions	(L _{WAd} , bels)		(L _{pAm} , decibels)	
(in accordance with	(=111.14)		(_p, 0.00.000,	
ISO 7779 and ISO 9296)				
Totalia Candia and	27		22.0	
Typically Configured – Idle	2.7		23.9	
lute				
Fixed Disk – Random	2.7		23.9	
writes				
1	This are decay be as a model of a second	-:hldi:kfl l:f	h	
Longevity and Upgrading	This product can be upgraded, post			
	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			
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of			
	production.			
Batteries	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/manganese dioxide			
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 3% post-consumer recycled plastic (by wt.) This product is 0.4.5% post-consumer recycled plastic (by wt.) This product is 0.4.5% post-consumer recycled plastic (by wt.)			
	• This product is 94.5% recycle-abl	e when properly disposed o	t at end of life.	



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

Packaging Materials	External:	l: PAPER/Corrugated 265 g		
	Internal:	•		
	PLASTIC/Polyethylene low density 7 g			
Material Usage 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	HP Inc. 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.			



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

HP Inc. 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

SYSTEM UNIT

Temperature

Altitude (unpressurized)

Planned Industry Standard

Certifications

Stand-Alone Power Nominal Operating Voltage 15V

Requirements (AC Power) Average Operating Power ChromeOS™

Integrated Graphics <4.0w with PLT test

Max Operating PowerUMA < 45W</th>Operating0° to 35° CNon-operating5° to 35° C

Relative Humidity Operating 10% to 90%, Non-condensing

Non-operating 5% to 95%, 101.6° F (38.7° C) Dry bulb value

Shock Operating 40 G, 2 ms, half-sine

Non-operating 240 G, 2 ms, half-sine

Random Vibration Operating 0.015 q2/Hz, 10-40 Hz, nominal 1.043 qrms

Non-operating 0.025 g2/Hz, 10-500 Hz, nominal 3.5 grms

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)

UL Yes

CSA No, Leverage cUL

FCC Compliance Yes ENERGY STAR® Yes¹⁸

EPEAT[®] Yes, 2.0 Silver¹⁹

ICES Yes
Australia Yes
NZ A-Tick Compliance Yes
CCC Yes

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

Japan VCCI Compliance No, no support this country

KC Yes **BSMI** Yes **CE Marking Compliance** Yes

BNCI or BELUS Yes, EAC, Belarus required CIT No, no support this country GOST Yes, EAC, Russia required

Saudi Arabian Compliance Yes

(ICCP)

SABS Yes

UKRSERTCOMPUTER No, no support this country

18. Configurations of the HP Chromebook x360 11 G2 EE that are ENERGY STAR® certified are identified as HP Chromebook x360 11 G2 EE ENERGY STAR® on HP websites and on http://www.energystar.gov.

19. 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.

DISPLAYS

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

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

Outline Dimensions

299.7 x 194.39 x 4.2 mm (max)

 $(W \times H \times D)$

256.125 x 144 Weight 320 g (max) Diagonal Size 11.6" 4.2 mm **Thickness** eDP1.2

Interface **Surface Treatment** ΒV **Touch Enabled** Yes

Contrast Ratio 800:1 (typ - BV)

Refresh Rate 60 Hz **Briahtness** 220 nits typ **Pixel Resolution** 1366 x 768 (HD)

Format RGB Backlight LED **Color Gamut Coverage** 50% **Color Depth** 6 bit + FRC

Viewing Angle UWVA 85/85/85/85

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

STORAGE AND DRIVES

eMMC 5.0 Drive Weight 0.2 g

Height 1.4 mm

Width11.5 x 13 mmInterfaceMMC protocol

Transfer Rate HS400

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

Operating Temperature 0 to 70 degree

NETWORKING / COMMUNICATIONS

Intel® 9560	Wireless LAN Standards	IEEE 802.11a
802.11a/b/g/n/ac (2x2)		IEEE 802.11b
WI AN and Blustooth® F O	1	IEEE 002 11a

WLAN and Bluetooth® 5.0 IEEE 802.11g
Combo¹ non-vPro IEEE 802.11n

IEEE 802.11ac 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 **Frequency Band** 802.11b/g/n

•2.402 - 2.482 GHz

802.11a/n/ac

•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)

Modulation Direct Sequence Spread Spectrum

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

Security³ •IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only

•AES-CCMP: 128 bit in hardware

•802.1x authentication

•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

•WPA2 certification
•IEEE 802.11i

•WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +18.5dBm minimum

• 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

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 Sensitivity ³ 802.11b, 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: -84dBm maximum 802.11ac, MCS9: -59dBm 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 q

2. Type 126: 1.3 g

Operating Voltage 3.3v +/- 9%

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

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

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 White – Radio ON

1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. 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/q (OFDM modulation).

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0 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 rate¹ 2.17 Mbps

BLE: 1 Mbps signaling data rate¹ 0.2 Mbps

1. 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 + 4 dBm for BR and EDR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Electrical Interface USB 2.0 compliant

Bluetooth Software Linux kernel version

Supported

Link Topology

Power Management

Intel CNVi/BRI HW power management

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management Certifications

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles

BT4.1-ESR 5/6/7 Compliance

Supported

LE Link Layer Ping

LE Dual Mode



LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

POWER

45 W PD AC Adapter Dimensions (H x W x D) 94 x 43 x 27.8 mm

Weight 200 g

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 45 W

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 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 1 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

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class 1,
SELV: Agency approvals - C-III - IIS NORDICS DENAN EN55022 Class R ECC

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** 5.2 x 240.8 x 76.4 mm (0.247 x 9.48 x 3 inch)

Weight 0.19 kg (0.42 lb)

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

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

Voltage 7.7 V Amp-hour capacity 6.15 Ah Watt-hour capacity 47.3 Wh

Temperature

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

No

Optional Travel Battery

Available



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

JSB-C™ to DisplayPort™ Adapter JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Silim Bluetooth Mouse Comfort Grip Wireless Mouse B-Button USB Laser Mouse B-Button USB Laser Mouse Glim USB KB & Mouse Filim USB KB & Mouse	1WC36AA N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA T6T83AA T1A66AA ZEB40AA#xxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Slim Bluetooth Mouse Comfort Grip Wireless Mouse B-Button USB Laser Mouse Slim USB KB & Mouse Folim USB KB & Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA T6T83AA T1A66AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Silim Bluetooth Mouse Comfort Grip Wireless Mouse B-Button USB Laser Mouse Glim USB KB & Mouse Filim USB KB & Mouse Treo 3.5mm Headset	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA T6T83AA T1A66AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Silim Bluetooth Mouse B-Button USB Laser Mouse B-Button USB Laser Mouse B-Button USB KB & Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Silim Bluetooth Mouse B-Button USB Laser Mouse B-Button USB Laser Mouse B-Button USB KB & Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse JSI Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA H4B81AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse Slim Bluetooth Mouse Comfort Grip Wireless Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx H2L63AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx F3J92AA#xxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Wireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse Essential USB Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA 2TK37AA#xxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Vireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse JSB Optical Travel mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA G1K28AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Vireless Collaboration Keyboard B-Button Laser Mouse JItra Mobile Wireless Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx H6F25AA
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Vireless Collaboration Keyboard B-Button Laser Mouse	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx H4B81AA#xxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard Vireless Collaboration Keyboard	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx Z9N398AAxxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter JSB Collaboration Keyboard	N9K78AA N2Z63AAA#xxx V7W66AA Z9N38AAxxx
JSB-C™ to USB 3.0 Adapter JSB-C™ to RJ45 Adapter	N9K78AA N2Z63AAA#xxx V7W66AA
JSB-C™ to USB 3.0 Adapter	N9K78AA N2Z63AAA#xxx
	N9K78AA
ISB-C™ to DisplayPort™ Adapter	
•	1WC36AA
JSB-C™ to HDMI 2.0 Adapter	
JSB-C Mini Dock	1PM64AA
slack 11.6 Always on Case	2MY57AA
	H1D24AA
Essential Top Load Case (up to 15.6")	H2W17AA#xxx
Business Slim Top Load Essential Top Load Case (up to 15.6")	2SC65AA H2W17AA#xxx
В	Essential Backpack (up to 15.6") Black 11.6 Always on Case USB-C Mini Dock

Summary of Changes

Date of change:	Version History:		Description of change:
April 21, 2019	From v1 to v2	Added	Environmental Section
April 23, 2019	From v1 to v3	Added	Networking Section Chromecast

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