

Overview

HP x2 210 G2 Detachable PC



Front Tablet View

- | | |
|----------------------------|------------------------|
| 1. Webcam | 5. Detachable keyboard |
| 2. Front-facing camera LED | 6. Touchpad |
| 3. Speakers (2) | |
| 4. Guide pins (2) | |

Overview



Front-left view

1. Volume control

2. Stereo headphone-out/mic-in combo jack

Overview

At A Glance

- An affordable 2 in1 designed to tablet-class thinness, featuring five flexible positions for comfort and productivity
- Windows 10 Pro or Windows 10 Home, and Windows 10 MSNA
- Intel® Atom™ x5 Z8350 (up to 1.92 GHz, 2 MB cache, 4 cores)
- Integrated Intel® HD Graphics
- 10.1" diagonal WXGA Anti-glare WLED, eDP (1280 x 800) UWVA Ultra-Slim Touch Display
- Up to 4 GB of memory
- 0.92 cm (0.36 in) thin for tablet only*
- Starting weight for Tablet only 0.59 kg (1.30 lbs)
- Starting Tablet and Keyboard weight 1.2 kg (2.60 lbs)
- HD Audio with DTS Studio Sound™, dual speakers and Web camera
- Up to 128 GB eMMC storage
- Multitouch gestures enabled for clickpad
- Security features include fTPM 2.0
- Wireless connectivity:
 - Intel® 802.11 a/b/g/n/ac (2x2) +Bluetooth® 4.2 Combo
- Standard commercial 1 year limited warranty. Optional HP Care Packs also available.

* HP X2 210 G2 is only offered with Keyboard.

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

Technical Specifications

PRODUCT NAME

HP x2 210 G2 Detachable PC

OPERATING SYSTEM

Preinstalled¹ Windows 10 Home 64¹
Windows 10 Pro 64¹
Windows 10 MSNA 64¹

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.

PROCESSOR

Intel® Atom™ x5 Z8350 (1.44GHz up to 1.92 GHz, 2 MB cache, 4 cores)

CHIPSET

Integrated SoC

GRAPHICS

Intel® HD Graphics 400

Supports

Dynamic Graphics Frequency, DX12, OpenGL 3.X, OpenCL 1.2

DISPLAY

Internal Touch

10.1" (25.65 cm) diagonal WXGA Anti-glare WLED, eDP (1280 x 800) UWVA Ultra-Slim

- 220 nits
- Touch solution with flush glass
- Multitouch enabled

Internal

10.1" diagonal WXGA Anti-glare WLED (1280 x 800) UWVA Ultra-Slim MIPI)

- 16:10 Ultra Wide Aspect Ratio IPS

Technical Specifications

- 220 nits
 - 10-finger multi touch, capacitive
 - Supports active pen
 - Full Win10 touch/pen compliance
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Technical Specifications

STORAGE

Embedded Multi Media Card (eMMC) on Tablet¹

2/32 GB
4/64 GB
4/128 GB

Expandable Card Expansion on Tablet

Micro Secure Digital (SD) Media Reader
Support SD/SDHC/SDXC (Up to 2TB)
Push-Push Insertion/Removal

NOTE: Sold separately or as an optional feature.

Internal component upgrades to storage are not available after factory configuration.

MEMORY

On-board system memory
LPDDR3-1600 Single Channel Support
LPDDR3-1866 1.2V (Transfer rates up to 1600 MT/s)

Supports up 4GB

2 GB (256 MB x16 x 4pcs)
4 GB (256 MB x 16 x 4 x 2pcs)

NOTE: Internal component upgrades to memory are not available after factory configuration.

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)

Intel® 802.11 a/b/g/n/ac (2x2) +Bluetooth® 4.0 battery Combo¹

Compatible with Miracast-certified devices²
Connected Standby support

1. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.
 2. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>.
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Technical Specifications

AUDIO/MULTIMEDIA

Audio

HD Audio with DTS Studio Sound™
Dual Speakers

Microphone

- Single Digital Mic
- Enable HP Noise Cancellation
- Support Voice Recognition

Web Cameras

Two Fixed Integrated Web cameras¹

Front

HP True Vision HD
HD 720p (1280 x 720) camera - indicator LED, USB 2.0, f2.0

Rear

HP True Vision 5 MP Fixed Focus (2592 x 1944) support WFOV

1. [Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.](#)

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard and clickpad

93% Island style thin cover keyboard (1.5mm travel distance) with image sensor clickpad
Multitouch gestures enabled for clickpad
6 PIN Pogo-pin docking connector connect to slate
Supports Windows 10 Modern Trackpad Gestures
Optional Detachable Hard Keyboard Cover¹

1. [Sold separately or as an optional feature.](#)

Buttons

Power
Volume control up and down

LED Indicators**Tablet**

Charging Status
Webcam

Keyboard

Caplock
mute

Technical Specifications

SOFTWARE AND SECURITY

Information and Productivity

Dropbox

Glide

Snapfish- Metro

Netflix- Metro¹

Amazon- Metro

Trip Advisor- Metro

Priceline

HP Value Added Software

Buy Office

HP 3D DriveGuard

HP Touchpoint Manager²

HP Store Bookmarks in EMEA

HP Support Assistant

HP PC Hardware Diagnostics

HP Setup Integrated OOBE

HP ePrint³

HP School Pack⁴

Win10 Welcome App

Win 10 Recovery Manager

Internet Explorer Home

Bing Search for IE11

Security

fTPM 2.0 (Intel® Technology)

Avast Secureline VPN

NOTES:

1. Netflix Metro trial membership must be used within 30 days of account registration. To avoid being charged future fees of \$9.99/monthly simply cancel +1(886) 579-7172) before the 30 day trial period ends.
2. HP Touchpoint Manager requires purchase of a subscription HP Touchpoint Manager supports Windows operating systems, and PCs, notebooks, tablets, and smartphones from various manufacturers. Not available in all countries. See www.hp.com/touchpoint for availability information.
3. HP ePrint requires an internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see <http://www.hp.com/go/businessmobileprinting>).
4. HP School Pack is sold separately or as an optional feature.

Technical Specifications

POWER

Power Supply

45W USB Type-C™ AC adapter

Power Cord

Power cord is 1-meter-long (3.28 feet)

Primary Battery (Tablet)

2- cell Lithium Polymer battery (32.5 WHr)

NOTE: Battery is internal and not replaceable by customer. Serviceable by warranty.

Battery life

Up to 10 hours and 15 minutes ¹

HP Fast Charge

30 minutes 50%

System Standby Time

TBD

1. Windows 10/MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight¹**Tablet only**

0.59 Kg (1.3 lbs)

Keyboard only

1.2 Kg (2.6 lbs)

Dimensions²

(w x d x h)

Tablet only

26.5 x 17.3 x 0.92 cm
(10.43 x 6.81 x 0.36 in)

Tablet with keyboard

26.5 x 18.3 x 2.35 cm
(10.43 x 6.81 x 0.93 in)

1. Weight varies by configuration and components.
2. Height varies depending upon where on the notebook the measurement is made.

Technical Specifications

PORTS/SLOTS

Tablet

- 1 USB 3.0
- 1 USB Type-C™ 2.0 (Data transfer + Charging)
- 1 Headphone / Microphone in Combo Jack
- 1 Micro HDMI v1.4 output (supports up to 1920 x 1080 @ 60 Hz)
- 1 Pogo-pin (6-pin) docking connector

Slots

- 1 MicroSD slot
-

SERVICE AND SUPPORT

HP 1 year limited warranty. 1-year limited warranty on primary battery. Optional¹ HP Care Packs² are extended service contracts which go beyond your standard limited warranties. For more details, visit: <http://www.hp.com/go/lookuptool>.

1. Sold separately or as an optional feature.
 2. 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. 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. 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>.
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Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	90Vac~264Vac
	Average Operating Power	45W
Temperature	Max Operating Power	45W
	Operating	0 to 35°C
Relative Humidity	Non-operating	-20 to +85°C
	Operating	0% to 95%
Shock	Non-operating	0% to 95%
	Operating	10 G, 11 ms, half sine
Random Vibration	Non-operating	240 G peak, 2ms, half sine
	Operating	0.75 grms
Altitude (unpressurized)	Non-operating	1.50 grms
	Operating	0 to 5,000 m (0 to 16,404 ft)
Planned Industry Standard Certifications	Non-operating	0 to 5,000 m (0 to 16,404 ft)
	UL	Yes
	CSA	Yes
	FCC Compliance	Yes
	ENERGY STAR®	Support
	EPEAT®	Support
	ICES	Yes

* Configurations of the HP x2 210 G2 Detachable PC that are ENERGY STAR qualified are identified as HP x2 210 G2 Detachable PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

** EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country. EPEAT status listed above applies to U.S.

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

DISPLAY

10.1" diagonal WXGA Anti-glare WLED, eDP (1280 x 800) UWVA Ultra-Slim Touch	Outline Dimensions (W x H x D)	228.02(H) x 148.6(V) x 2.6 (panel) / 4.6 (panel+PCB) max.
	Active Area	216.96(H)x135.6(V)
	Weight	145g max (LCD only, without touch panel)
	Diagonal Size	10.1"
	Touch Enabled	Yes
	TSP Type	Direct Bonding
	Surface Treatment	BV, Anti-glare
	Contrast Ratio	800:1 (typ)
	Refresh Rate	60/40Hz
	Response time	30ms typ.
	Pixel Per Inch (PPI)	150

Technical Specifications

Brightness	220 nit	
Pixel Resolution	Format	RGB
	Configuration	Vertical Stripe
Interface	eDP	
LCD Mode	AHVA	
Viewing Angle	85/85/85/85	

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

NETWORKING/COMMUNICATIONS

Intel® 802.11 a/b/g/n/ac (2x2) +Bluetooth® 4.2 Combo

Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n <ul style="list-style-type: none"> 2.402 – 2.482 GHz <p>Note: The FCC has declared as of January 1, 2015 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.</p> 802.11a/n <ul style="list-style-type: none"> 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 <p>Note: Indonesia no support this band</p>
Data Rates	<ul style="list-style-type: none"> 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, and 80MHz)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security¹	<ul style="list-style-type: none"> 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.

Technical Specifications

	<ul style="list-style-type: none"> • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power²	<ul style="list-style-type: none"> • 802.11b : +16dBm minimum • 802.11g : +14dBm minimum • 802.11a : +14dBm minimum • 802.11n HT20(2.4GHz) : +14dBm minimum • 802.11n HT40(2.4GHz) : +12dBm minimum • 802.11n HT20(5GHz) : +14dBm minimum • 802.11n HT40(5GHz) : +12dBm minimum
Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 5 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity³	802.11b, 1Mbps : -94dBm maximum 802.11b, 11Mbps : -86dBm maximum 802.11g, 6Mbps : -88dBm maximum 802.11g, 54Mbps : -74dBm maximum 802.11a, 6Mbps : -88dBm maximum 802.11a, 54Mbps : -74dBm maximum 802.11n, MCS07 : -69dBm maximum 802.11n, MCS15 : -66dBm maximum 802.11ac, 1SS, MCS-0 : -86dBm maximum 802.11ac, 1SS, MCS-9 : -61dBm maximum 802.11ac, 2SS, MCS-0 : -83dBm maximum 802.11ac, 2SS, MCS-9 : -58dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm Or Type 1630 : 2.3 x 16.0 x 30.0 mm
Weight	Type 2230 : 2.8g Or

Technical Specifications

	Type 1630: 2g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating	14° to 158° F (–10° to 70° C)
	Non-operating	–40° to 176° F (–40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON	
	<ol style="list-style-type: none"> 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/g (OFDM modulation). 	

HP 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 Channels	Legacy : 0~79 (1 MHz/CH)
	BLE : 0~39 (2 MHz/CH)
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps
	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 + 4 dBm for BR and EDR.

POWER

45W USB Type-C™ A C adapter

Dimensions (H x W x D)	107x47x30mm (Max. size)
Weight	200g +/-10%
Input	90Vac ~ 264Vac
	Input Efficiency Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 78.71% 12V : 87.41% 15V : 87.73%
	Input frequency range 47 ~ 63Hz
	Input AC current Input : 90V /47Hz ; Output: 15V / 3A 45W Input AC current 1.4A (max)
Output	Output power 5V/10W 12V/36W 15V/45W
	DC output 5V / 12V / 15V
	Hold-up time 5ms

Technical Specifications

	Output current limit	5V/2A 12V/3A 15V/3A	
Connector	USB TYPE C Connector		
Environmental Design	Operating temperature	0 to 35 °C	
	Non-operating (storage) temperature	-20 to +85 °C	
	Altitude	5,000m above sea level.	
	Humidity	95 percent, non-condensing.	
	Storage Humidity	95 percent, non-condensing.	
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; Reliability - failure rate of less than 0.1% annually within the first three years of operation.		
Lithium Polymer battery (32.5 WHr)	Dimensions (H x W x L)	3.5mm*124.85mm*169.9mm (0.14in*4.92in*6.69in)	
	Weight	0.135kg+/-0.010kg (0.3lb+/-0.02lb)	
	Cells/Type	Lishen SP2982B1SF/LGC ICP2982111L1 ;3cells	
	Energy	Voltage	7.7V
		Amp-hour capacity	4.23Ah
		Watt-hour capacity	32.5Wh
		Temperature	Operating (Charging)
	Operating (Discharging)		-10°C~ 60°C
	Non-operating		-20°C~ 60°C 1 Month
	Fuel Gauge LED	No LED	
Warranty	3 years		
Optional Travel Battery Available	No		

COUNTRY OF ORIGIN

China

ENVIRONMENTAL

TBD

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

Type	Description	Part Number
Cases	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Slim Ultrabook Messenger (up to 15.6" x .88"/22/5mm)	F3W14AA
	HP Slim Ultrabook Top Load (up to 15.6" x .88"/22/5mm)	F3W15AA
	HP Slim Ultrabook Backpack (up to 15.6" x .88"/22/5mm)	F3W16AA
	HP Elite Top Load Leather Case ¹	T9H72AA
	HP Top Load Nylon Case ¹	T9H73AA
Docking	HP Elite USB Type-C™ Docking Station (USB-A)	X7W54AA
	HP USB Travel Dock(USB-A)	T0K30AA
	HP 3005pr USB 3 Port Replicator(USB-A)	H1L08AA
Input/Output	HP Slim USB Keyboard and Mouse	T6T83AA
	HP 3-Button Laser Mouse	H4B81AA
	HP Ultrathin Wireless Mouse	L9V78AA
	HP 2.4 GHz Wireless Mouse	L0Z84AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Stereo USB Headset	T1A67AA
	HP Conferencing Keyboard	K8P74AA
	HP Speaker UC Phone	K7V16AA
	HP Wired UC Headset	K7V17AA
	HP Slim Wireless Keyboard and Mouse	T6L04AA
	USB Graphics Adapter	NL571AT
	HP Pro Tablet 408 Active Pen	K8P73A
Adapter	USB 3.0 to GigaLAN/USB	N7P47AA
	HP MicroHDMI to HDMI/VGA	K8E31AA
	HP Wireless Display Adapter	J1V25AA
	HP 45W USB Type-CTM AC Adapter	V5Y26AA#ABA
	HP External USB Optical Drive	F2B56AA

NOTE 1: North America Only.

Summary of Changes

Date of change:	Version history		Description of change:
August 2, 2016	Version 1 to 2:	Changed	p/n for HP Elite USB Type-C™ Docking Station
September 30, 2016	Version 2 to 3	Update	Updated Bluetooth, added battery life and updated Brightness specs.
October 5, 2016	Version 3 to 4	Update	Display information updated, added the Internal specifications

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