

Overview

HP Stream 11 Pro G5 Notebook PC



1. Web camera LED
2. Web Camera
3. Microphone
4. Clickpad with multi-touch gestures support
5. Power LED

Front Left

6. Headphone / Microphone Combo Jack
7. USB 2.0 port (Cable not included)
8. Security lock mini slot (Lock sold separately)
9. Power Button

Overview



Front Right

- | | | | |
|----|----------------------|----|--------------------------------|
| 1. | Power connector | 3. | USB 3.1 Gen1 |
| 2. | Micro SD card reader | 4. | HDMI port (Cable not included) |

Overview

At A Glance

- Preinstall with Windows 10 or Windows 10 S versions
- Choice of Intel® Celeron® and Pentium® processors
- Intel® UHD Graphics 600 or 605
- Choice of eMMC up to 128 GB
- Intel® Dual Band Wireless-AC 9560 802.11 AC (2x2) WiFi (MU-MIMO/160 Mhz) and Bluetooth® 5.0 Combo Adapter
- Display choices include 11.6" diagonal HD touch or non-touch
- Weight starting at 1.26 kg (2.78 lbs)
- Security features including HW TPM 2.0 and security lock mini slot (Lock not included.)
- Full size textured island-style keyboard
- Touchpad with gestures support
- HP webcam with single digital microphone and VGA camera
- One USB 3.1 Gen1 port and one USB 2.0 port
- Designed to pass 70 cm drop on concrete test, IPX1/IP41, 9 MIL-STD 810G certification¹

1. MIL-STD-810G testing is pending and 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.



Features

PRODUCT NAME

HP Stream 11 Pro G5

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64¹
Windows 10 Pro 64 (National Academic only)²
Windows 10 Home 64 – HP recommends Windows 10 Pro¹
Windows 10 Pro in S mode 64³
Windows 10 Pro in S mode 64 (National Academic only)^{2,3}

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.windows.com/>.
2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.
3. Windows 10 Pro in S mode 64 works exclusively with apps from the Windows store. Some accessories and apps compatible with Windows 10 may not work, and performance may vary. Certain default settings, features, and apps cannot be changed. Easily switch to Windows 10 Pro configuration (fee applies) Learn more at [Microsoft.com/Windows 10S](https://Microsoft.com/Windows10S).

PROCESSORS

Intel® Celeron® N4000 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.6 GHz burst frequency, 4 MB cache, 2 cores)^{4,5,6}

Intel® Celeron® N4100 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 4 MB cache, 4 cores)^{4,5,6}

Intel® Pentium® Silver N5000 with Intel® UHD Graphics 605 (1.1 GHz base frequency, up to 2.7 GHz burst frequency, 4 MB cache, 4 cores)^{4,5,6}

Processor Family

Intel® Celeron® processor (N4000 is on Windows 10 only)⁶

Intel® Celeron® processor (N4100 is on Windows 10 only)⁶

Intel® Pentium® silver processor (N5000 is on Windows 10 only)⁶

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. Intel's numbering is not a measurement of higher performance.
5. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
6. 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>.



Features

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics 600⁷

Intel® UHD Graphics 605⁷

Supports

Support HD Decode, DX12, and HDMI

7. HD content required to view HD images.
-

DISPLAY

Internal

Non-Touch

29.46 cm (11.6") diagonal HD SVA eDP anti-glare WLED-backlit slim, 220 cd/m², 50% sRGB (1366 x 768)^{7,8,9}

Touch

29.46 cm (11.6") diagonal HD IPS eDP BrightView WLED-backlit slim TOP touch screen, 220 cd/m², 50% sRGB (1366 x 768)^{7,8,9}

HDMI v1.4

Supports up to 1920x1080 @ 60Hz

Supports dual display through the dock

Supports 3 independent displays if used with optional HP UltraSlim Docking Station.

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

STORAGE AND DRIVES

Primary Storage

64 GB eMMC¹⁰

128 GB eMMC¹⁰

10. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
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Features

MEMORY

Maximum Memory

4 GB DDR4-2400 onboard memory (DDR4-2666 downgrade to DDR4-2400)¹¹

Memory

4 GB DDR4-2400 onboard memory¹¹

Memory Slots

Onboard memory

Supports Dual Channel Memory

11. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
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NETWORKING/COMMUNICATIONS

WLAN

Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™¹²

Miracast

Compatible with Miracast-certified devices (models with Windows 10)¹³

12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac 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 802.11ac WLAN devices.
 13. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
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AUDIO/MULTIMEDIA

Audio

Single digital microphone

Webcam

VGA camera, indicator LED, USB 2.0 (640 x 480 by 24 frames per second)^{7,9}

7. HD content required to view HD images
 9. Sold separately or as an optional feature.
-



Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full-size textured island-style keyboard (No numeric Keypad)

Pointing Device

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

Function Keys

ESC: system information

F1 - Display Switching

F2 - Blank

F3 - Brightness Down

F4 - Brightness Up

F5 - Speaker Mute

F6 - Volume Down

F7 - Volume Up

F8 - Mic Mute

F9 - Blank

F10 - Blank

F11 - Wi-fi Toggle

F12 - Print Screen

SOFTWARE AND SECURITY

Preinstalled Software

HP Audio Switch

HP Connection Optimizer

HP JumpStart

HP PC Hardware Diagnostics Windows

HP SSRM

HP Support Assistant¹⁷

Buy Office (sold separately)

HP School Pack 3.5

HP Prime Graphing Calculator Pro

HP Simple Sign-On

HP ClassRoom Manager

Kortext

Manageability Features

HP Driver Packs¹⁹

Security Management

TPM 2.0¹⁸

Mini security lock slot (Lock sold separately.)

17. HP Support Assistant requires Windows and Internet access.

18. HP ePrint Driver 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/eprintcenter>). Print times and connection speeds may vary.

19. HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.



Features

POWER

Power Supply

HP Smart 45 W External AC power adapter²⁰

Primary Battery

2-cell, 37.69 Wh Li-ion polymer²¹

Power Cord

1M length power cord

Battery life

Up to 12 hours²²

20. Availability may vary by country.

21. Battery is internal and not replaceable by customer. Serviceable by warranty.

22. 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

Weight

Starting at 2.82 lb (touch); Starting at 2.78 lb (non-touch)²³

Starting at 1.28 kg (touch); Starting at 1.26 kg (non-touch)²³

Product Dimensions (w x d x h)

11.81 8.19 x 0.71 in

30 x 20.81 x 1.8 cm

23. Availability may vary by country.

PORTS/SLOTS

Ports

1 USB 3.1 Gen 1

1 USB 2.0

1 HDMI 1.4²⁴

1 AC power

1 Headphone/microphone combo jack

Expansion Slots

1 M.2 slot for WLAN

24. HDMI cable sold separately.



Features

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>.²⁵

25. 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 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)

Nominal Operating Voltage	19V
Average Operating Power	2 cell polymer battery - 37.69Whr
Integrated graphics	< 4.0w (PLT test)
Max Operating Power	UMA < 45W

Temperature

Operating	0 to 35 C
Non-operating	5 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 g2/Hz, 10-40 Hz, nominal 1.043 grms
Non-operating	0.025 g2/Hz, 10-500 Hz, nominal 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
FCC Compliance	Yes
ENERGY STAR®	Select models ²⁶
EPEAT® 2019	Yes, Silver in U.S. ²⁷
ICES	Yes
Australia /	Yes
NZ A-Tick Compliance	Yes
Japan VCCI Compliance	Yes
CE Marking Compliance	Yes

26. Configurations of the HP Stream 11 Pro G5 Notebook PC is ENERGY STAR® qualified are identified as HP Stream 11 Pro G5 Notebook PC ENERGY STAR on HP websites and on <http://www.energystar.gov>.

27. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.



Technical Specifications

DISPLAYS

Panel LCD 11.6 inch HD (1366x768) Anti-Glare WLED SVA 45percent cg 220nits eDP slim	Outline Dimensions (W x H x D)	268 x 168 x 3.0 mm
	Active Area	256.125 x 144 mm
	Weight	210 g max
	Diagonal Size	11.6 (in)
	Thickness	3.0 mm max
	Interface	eDP 1.2
	Surface Treatment	Anti-glare (AG)
	Touch Enabled	None
	Contrast Ratio	500:1 typ
	Refresh Rate	60 Hz
	Brightness	220 nit typ
	Pixel Resolution	1366 x 768 (HD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	45%
	Color Depth	6 bit
	Viewing Angle	SVA 45/45/20/40

Panel LCD 11.6 inch HD (1366x768) BrightView WLED UWVA 50percent cg 220nits eDP 1.2 w/o PSR slim TOP	Outline Dimensions (W x H x D)	278.5 X 168.52 X 3.2(PCBA) mm
	Active Area	256.125 x 144
	Weight	200g
	Diagonal Size	11.6
	Thickness	3.2mm (PCBA)
	Interface	eDP 1.2
	Surface Treatment	BV
	Touch Enabled	enable
	Contrast Ratio	800:1 typ
	Refresh Rate	60Hz
	Brightness	220nits
	Pixel Resolution	1366 x 768 (HD)
	Format	RGB
	Backlight	LED
	Color Gamut Coverage	50
	Color Depth	6bit
	Viewing Angle	UWVA 85/85/85/85



Technical Specifications

STORAGE AND DRIVES

HARD DRIVES

eMMC 5.0	Drive Weight	0.2g
	Rotation speed	64GB/128GB
	Cache Buffer	1.4mm
	Height	11.5x13mm
	Width	MMC potocal
	Transfer Rate	Up to 250 MB/s
	Seek Time	Up to 70 MB/s
	Logical Blocks	64GB (62,537,072,640 Bytes)/128GB (125,074,145,280)
	Operating Temperature	0 to 70
	Security Features	HS400

NETWORKING/COMMUNICATIONS

Intel Jefferson Peak2 9560 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 5.0 Combo¹ non-vPro	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g 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
	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, , 80MHz & 160MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security³	<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. • WPA2 certification • IEEE 802.11i



Technical Specifications

	<ul style="list-style-type: none"> • 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: +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	<ul style="list-style-type: none"> • 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 Sensitivity³	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	Type 2230 : 2.3 x 22.0 x 30.0 mm Type 1216: 1.67 x 12.0 x 16.0 mm



Technical Specifications

Weight	Type 2230 : 2.8g Type 126: 1.3g
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 4.0/4.1/4.2/5.0 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2/5.0 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 Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
Bluetooth Software Supported Link Topology	Microsoft Windows Bluetooth Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
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 Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels



Technical Specifications

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)



Technical Specifications

POWER

45 W AC adapter	Dimensions	95.0x40.0x26.5mm	
	Weight	unit: 200g +/- 10g	
	Input	100 to 240 VAC	
		Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
		Input frequency range	47 ~ 63 Hz
		Input AC current	Max. 1.4 A at 90 Vac
	Output	Output power	45W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<8.0A
	Connector	4.5mm Barrel Type	
	Environmental Design	Operating temperature	32oF to 95oF (0to 35oC)
		Non-operating (storage) temperature	-4oF to 185oF (-20to 85oC)
		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, 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 (37 Whr)	Dimensions (H x W x L)	4.26 x 207.1 x 137.1 mm (0.173 x 8.45 x 5.59 inch)	
	Weight	0.17 kg (0.37 lb)	
	Cells/Type	2cell Lithium-Ion Polymer cell / 3674C0	
	Voltage	7.6V	
	Amp-hour capacity	4.96Ah	
	Watt-hour capacity	37Wh	
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F (-10° to 60° C)

Technical Specifications

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 Silver registered in the United States. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.

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, 60Hz
Normal Operation (Short idle)	3.91	4.04	3.85
Normal Operation (Long idle)	1.94	1.98	1.9
Sleep	0.61	0.67	0.61
Off	0.12	0.15	0.12

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, 60Hz
Normal Operation (Short idle)	13	14	13
Normal Operation (Long idle)	7	7	6
Sleep	2	2	2
Off	1	1	1

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



Technical Specifications

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power ($L_{WA,d}$, bels)	Sound Pressure (L_{pAm} , decibels)
Typically Configured – Idle	1.6	16
Fixed Disk – Random writes	1.6	16
Longevity and Upgrading	<p>This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:</p> <ul style="list-style-type: none"> • 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 <p>Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.</p>	
Batteries	<p>This battery(s) in this product comply with EU Directive 2006/66/EC</p> <p>Batteries used in the product do not contain: Mercury greater the 1ppm by weight Cadmium greater than 20ppm by weight</p> <p>Battery size: CR2032 (coin cell) Battery type: Lithium</p>	
Additional Information	<ul style="list-style-type: none"> • 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 1680.1 (EPEAT) standard at the Silver 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 8.4 % post-consumer recycled plastic (by wt.) • This product is 98.1 % recycle-able when properly disposed of at end of life. 	
Packaging Materials	External:	PAPER/Corrugated 265 g
	Internal:	PLASTIC/Polyethylene low density - LDPE 39 g
Material Usage	<p>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):</p> <ul style="list-style-type: none"> • Asbestos • Certain Azo Colorants 	



Technical Specifications

- 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)
- 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.



Technical Specifications

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>

COUNTRY OF ORIGIN

China



Options and Accessories (sold separately)

Category	Description	Part number
Cases	HP Business Top Load	2SC66AA
	HP Business Slim Top Load	2SC65AA
	HP Business Backpack	2SC67AA
	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
Docking	HP USB 3.0 Travel Dock	T0K30AA
	HP 3005pr USB3 Port Replicator	Y4H06AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C Dock w/4.5mm Adapter	2UF95AA
	HP USB-C Universal Dock Non-Flash (w/4.5mm Adapter)	3DV65AA
Input / Output	HP Slim USB Keyboard & Mouse	T6T83AA#xxx
	HP USB Optical Travel mouse	G1K28AA
	HP Essential USB Mouse	2TX37AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Slim Bluetooth Mouse	F3J92AA
	HP UC Speaker Phone	K7V16AA
	HP UC Wired Headset	K7V17AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
	HDMI to VGA Adapter	H4F02AA
	HP HDMI to DVI Adapter	F5A28AA
	HP USB Gigabit RJ45 Adapter	N7P47AA#xxx
	USB 3.0 to GigLAN/USB	None
	HP 3-Button USB Laser Mouse	H4B81AA
	HP 45W Smart AC Adapter (4.5mm)	H6Y88AA#xxx
	HP Notebook Power Bank	N9F71AA
	Storage	HP External USB Optical Drive
UCC		
Displays	HP Conferencing Keyboard	K8P74AA
	HP Speaker Phone	K7V16AA
	HP Wired Headset	K7V17AA
	HP ProDisplay P240VA 23.8-inch Monitor	N3H13AA
	HP EliteDisplay E243m 23.8-inch Collaboration Monitor	1FH48AA
HP EliteDisplay E230t 23-Inch Touch Monitor	W2Z50AA	
HP EliteDisplay S14 14-inch USB-C Portable Monitor	3HX46AA	



Summary of Changes

Date of change:	Version History:		Description of change:
January 14, 2019	V1 to V2	Added	Environmental Tab
April 10, 2019	V2 to V3	Changed	SOFTWARE AND SECURITY section updated
June 12, 2019	V3 to V4	Updated	EPEAT

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