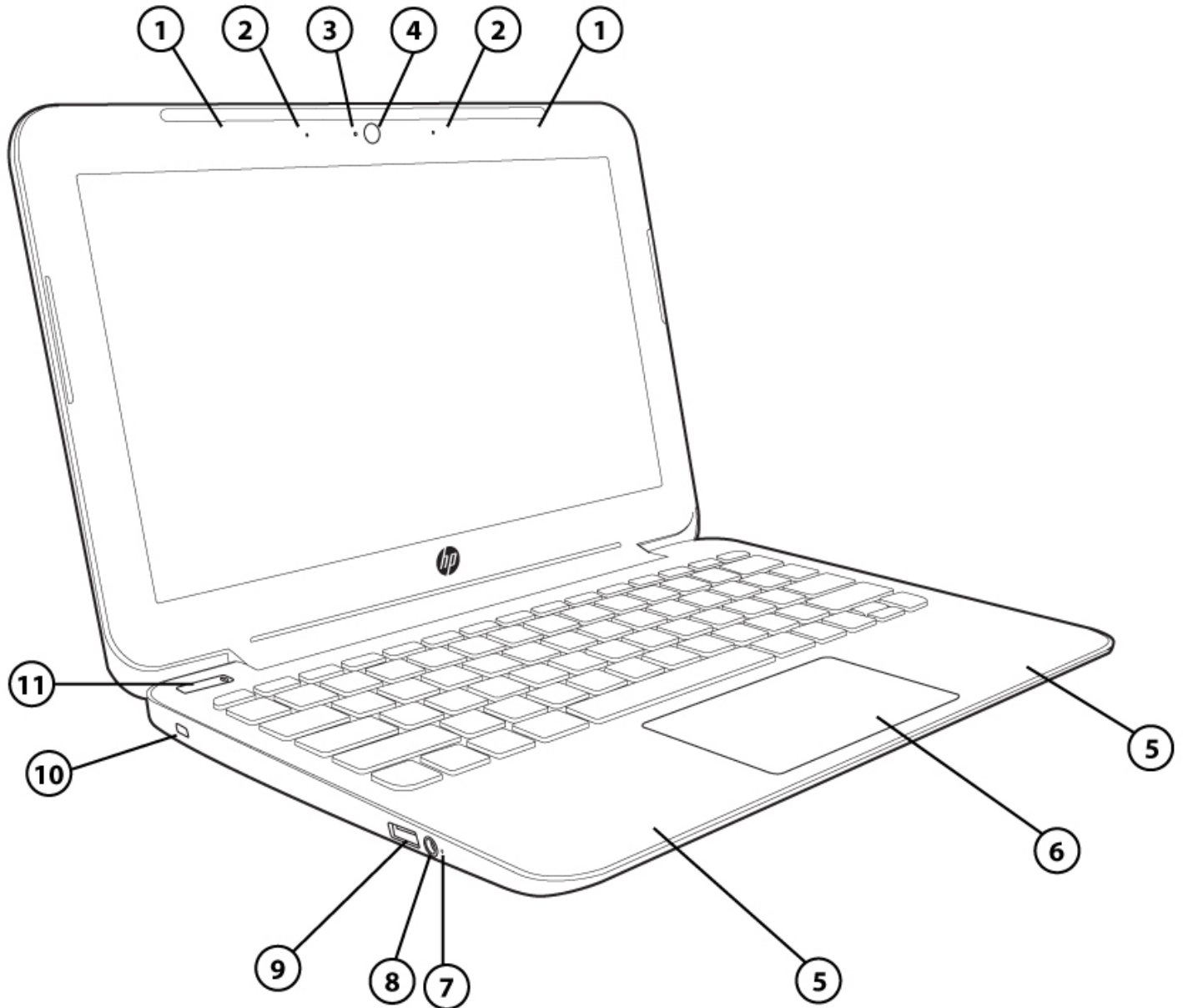


Overview

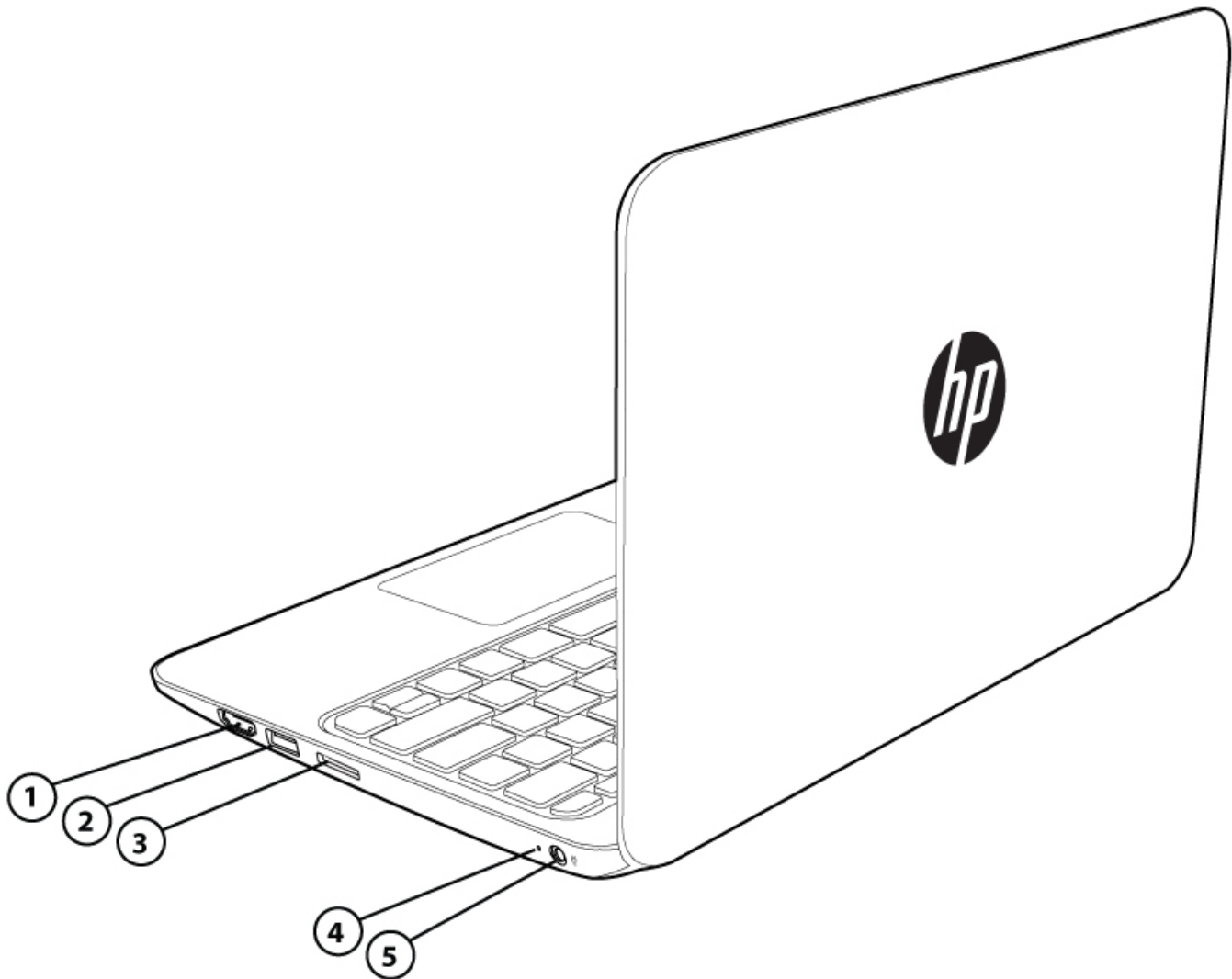
HP Stream 11 Pro G2 Notebook PC



- | | |
|---|---|
| 1. WLAN antennas | 7. Power LED |
| 2. Dual-microphone array | 8. Headphone / Microphone in Combo Jack |
| 3. Web Cam LED | 9. USB 2.0 Port |
| 4. Webcam | 10. Security lock slot |
| 5. Internal Speakers (2) | 11. Power button with power LED |
| 6. Clickpad with multi-touch gestures support | |



Overview



- | | |
|---|--------------------|
| 1. HDMI Port | 4. AC plug LED |
| 2. USB 3.1 Port | 5. AC adapter plug |
| 3. Multi-Format Digital Media Card Reader | |



Overview

AT A GLANCE

- Pre-installed with Windows 10 editions
- Powered by Intel® Celeron® N3050
- Battery life up to 10 hours and 30 minutes
- 11.6" diagonal HD WLED Anti-glare display (1366x768)
- Storage options with eMMC Configurations up to 64 GB to run programs locally
- Memory options up to 4GB for enhanced memory management
- Intel® Dual Band Wireless - AC 7265 802.11 ac (2x2) WiFi + Bluetooth® Combo Wireless solution
- Weight starting at 2.43 lbs (1.10 kg) 1.8 cm thin
- HDMI port for connecting to high-resolution displays
- HP TrueVision HD camera with integrated microphone
- DTS Studio Sound™ optimized for high fidelity audio
- Enhanced security TPM 2.0 discrete chip

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



Features

PRODUCT NAMES

HP Stream 11 Pro G2 Notebook PC

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64 Compact¹
Windows 10 Pro 64 Compact (National Academic only)¹

1. Not all features are available in all editions or versions of Windows of Windows 10. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows 10 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>.

PROCESSORS

Intel® Celeron® N3050 (1.6 GHz, Turbo up to 2.16 GHz), 1600 MHz (2 MB L2, 2 cores)¹ SDP 4W, BGA

1. Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® HD¹ Graphics
Support HD Decode, DX12, and HDMI

1. HD content required to view HD images.

DISPLAY

Internal

11.6" diagonal HD¹ WLED Anti-glare(1366x768) display

External

Up to 32-bit per pixel color depth



Features

HDMI²

1.4v supports up to 1920 x 1080 @ 60 Hz

1. HD content required to view HD images.
2. HDMI cable sold separately.

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage

eMMC Configurations

32 GB

64 GB

NOTE: For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 10.56 GB for Windows 10 Compact OS and driver is reserved for system recovery software.

MEMORY

Standard

DDR3L-1600 (Transfer rates up to 1600 MT/s)

Single Channel Support (For 2 GB)

Dual Channel Support (For 4 GB)

On board (Customer non-accessible)

2 GB (256 MB x 16 x 4 pcs)

4 GB (256 MB x 16 x 8 pcs)¹

1. Not available with 32 GB eMMC

Maximum

4 GB

Dual-channel

Maximized dual-channel performance requires on board memory design of the same size and speed in both memory slots.

NOTE: 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.

NETWORKING/COMMUNICATIONS

Wireless¹

Intel® Dual Band Wireless - AC 7265 802.11 ac (2x2) WiFi + Bluetooth® Combo

WiDi

Integrated Intel® Wi-Di software is available and requires Intel® Wi-Di enabled receiver device.



Features

Miracast

Compatible with Miracast-certified devices.

Internal Card Expansion

One M.2 slot for WLAN

1. [Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.](#)

AUDIO/MULTIMEDIA

Audio

DTS Studio Sound™

Two integrated Stereo Speaker

Headphone / Microphone in Combo Jack

Webcam¹

HP TrueVision HD² camera

Fixed (no tilt) + activity LED, 1 PC, USB 2.0, M-JPEG

1280 x 720 by 30 frames per second

Dual array Digital Microphones with appropriate software - beam forming, echo cancellation, noise suppression

HP Noise Cancellation support

1. [Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.](#)
2. [HD content required to view HD images.](#)

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full sized black textured

Island-style keyboard (No numeric Keypad)

Clickpad

Clickpad with image sensor

Multitouch gestures enabled

Default on: 2-finger scroll, pinch, rotate, 2-finger click, 3-finger flick

Support Modern Trackpad Gestures

Taps enabled as default

SOFTWARE AND SECURITY

Software

Buy Office¹

Optional HP Touch Point Manager¹



Features

1. Sold separately or as an optional feature.

Security

Lock Slot (Lock sold separately)
TPM 2.0

POWER

Power Supply

HP 45W AC Adapter
HP 65W Smart EM AC Adapter (India and China only)

Primary Battery

HP 2-cell (37.69 Whr) Polymer battery
Support battery fast charge

Battery life¹

Up to 10 hours and 30 minutes
(2 GB Memory/32 GB eMMC SKU)

Up to 9 hours and 30 minutes
(4 GB Memory/64 GB eMMC SKU)

System Standby Time²

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.
2. Standby life will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

WEIGHTS & DIMENSIONS

Weight

Starting at 2.43 lbs (1.10 kg)

Dimensions (w x d x h)

11.81 x 8.09 x .72 in
30.0 x 20.57 x 1.84 cm

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

PORTS/SLOTS

Ports

USB 3.0 Ports – One (Right side)



Features

USB 2.0 Ports – One (Left side)

USB 2.0/3.0 Allocation:

2 for the unit

1 for Camera

1 for WLAN Combo

1 AC Smart Pin adapter plug

1 Headphone / Microphone in Combo Jack

HP Multi-Format Digital Media Reader

Support micro SD/SDHC/SDXC up to UHS-104

Push-Push Insertion/Removal

NOTE: All cables are sold separately.

SERVICE AND SUPPORT

HP 1 year limited warranty. 1 year limited warranty on primary battery. On-site service and optional extended service contracts are also available. Optional¹ HP Services² 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>.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	19.5V
	Average Operating Power	
	Max Operating Power	< 45W
Temperature	Operating	41° to 95° F (5° to 35° C)
	Non-operating	-4° to 140° F (-20° to 60° C)
Relative Humidity	Operating	10% to 90%, non-condensing
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
Shock	Operating	40 G, 2 ms, half-sine
	Non-operating	200 G, 2 ms, half-sine
Random Vibration	Operating	0.75 grms
	Non-operating	1.50 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	<u>No, need consult with Anna request or not?</u>
	FCC Compliance	Yes
	ENERGY STAR®	Yes
	EPEAT	Yes
	ICES	Yes
	Australia / NZ A-Tick Compliance	Yes
	CCC	Yes
	Japan VCCI Compliance	Yes
	KC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	BNCI or BELUS	Yes, now call "CU" or "EAC"
	CIT	No idea
	GOST	Yes, now call "CU" or "EAC"
	Saudi Arabian Compliance (ICCP)	Yes
	SABS	Yes
UKRSERTCOMPUTER	Yes	



Technical Specifications

DISPLAYS

11.6" diagonal HD WLED Anti-Glare (1366x768) flat (3.6mm), SVA	Outline Dimensions (W x H x D)	278.5 x 168.5 x 3.6mm max.
	Active Area	256.125 x 144.0mm typ.
	Weight	235g max.
	Diagonal Size	11.6 inch
	Contrast Ratio	300:1
	Refresh Rate	60Hz
	Brightness	220nits typ.
	Pixel Resolution	Format 1366 x 768
		Configuration RGB Stripe
	Pixel Resolution Interface	eDP
	LCD Mode	TN
	PPI	135
	Viewing Angle	40/40/15/30

NETWORKING/COMMUNICATIONS

Intel® Dual Band Wireless - AC 7265 802.11 ac (2x2) WiFi + Bluetooth® 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

- 2.402 – 2.482 GHz
- 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.



Technical Specifications

	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 Note: Indonesia no support this band)
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.• 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) : +13dBm minimum• 802.11n HT40(2.4GHz) : +13dBm minimum• 802.11n HT20(5GHz) : +12dBm minimum• 802.11n HT40(5GHz) : +12dBm minimum• 802.11ac 80MHz(5GHz) : +11dBm minimum
Power Consumption	Transmit: 2.0 W (max)



Technical Specifications

	Receive: 1.6 W (max)
	Idle mode (PSP): 180 mW (WLAN Associated)
	Idle mode: 60 mW (WLAN unassociated)
	Radio disabled: 30 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 : -86dBm maximum 802.11a, 54Mbps : -72dBm maximum 802.11n, MCS07 : -69dBm maximum 802.11n, MCS15 : -66dBm maximum 802.11ac, 1SS, MCS-0 : -86dBm maximum 802.11ac, 1SS, MCS-9 : -61 dBm 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
Weight	Type 2230 : 2.8g



Technical Specifications

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	

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+EDR Wireless Technology

Bluetooth Specification	4.0+EDR Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	79 (1 MHz) available channels		
Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps		
	Synchronous Connection Oriented links up to 3, 64 kbps, voice channels		
	Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric		
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.		
Receiver Sensitivity	Modulation	0.01% BER	0.001% BER
	GFSK	-80 dBm	-70 dBm
	π/4-DQPSK	-80 dBm	-70 dBm
	8DPSK	-80 dBm	-70 dBm
Power Consumption	Peak (Tx) 330 mW		
	Peak (Rx) 230 mW		
	Selective Suspend 17 mW		



Technical Specifications

Range	Up to 33 ft (10 m)
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	
Electrical Interface	Point to Point, Multipoint Pico Nets up to 7 slaves
Bluetooth Software Supported	Full support of Bluetooth Security Provisions
Security	
Power Management	Microsoft Windows ACPI, and USB Bus Support
Power Management	Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Certifications	
Security	All necessary regulatory approvals for supported countries, including:
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Bluetooth Profiles Supported	
Power Management	ETS 300 328, ETS 300 826
Certifications	Low Voltage Directive IEC950
	UL, CSA, and CE Mark
	Serial Port Profile (SPP) ¹
	Service Discovery Application Profile (SDAP)
	Dial-Up Networking (DUN) ^{1,2}
	Generic Object Exchange Profile (GOEP) ^{1,2}
Certifications	Object Push Profile (OPP) ^{1,2}
	File Transfer Profile (FTP)
Bluetooth Profiles Supported	Synchronization Profile (SYNC)
	Hard Copy Cable Replacement (HCRP) ^{1,2}
	Personal Area Networking Profile (PAN) ^{1,2}
	Human Interface Device Profile (HID) ^{1,2}
	FAX Profile (FAX)
	Basic Imaging Profile (BIP) ²
	Headset Profile (HSP)
	Hands Free Profile (HFP)
	Advanced Audio Distribution Profile (A2DP)



Technical Specifications

AUDIO/MULTIMEDIA

DTS STUDIO SOUND

Hardware	Implementation	Realtek ALC 3227 Low Power High Definition Audio Codec
	Function Key Volume Controls	Volume up, Volume down, and Mute
	Full Duplex	Yes
	Microphone In	Mono
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes, Dual Digital Microphone
Audio Output Quality	Frequency Response	20 Hz – 20KHz
	Signal to Noise Ratio	90 dB FSA (Typical)
	Total Harmonic Distortion	-80 dB FS (Typical)
	Noise Floor	-120 dB
	Play/Record Sampling Rate(s)	8KHz – 96KHz
	DAC	16, 20 or 24 bit
	ADC	16 or 20 bit
Integrated Stereo Speakers	Power Rating	2 Watts
	Impedance	4 Ohm



Technical Specifications

POWER

HP 45W AC Adapter	Dimensions	3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)	
	Weight	0.386 lb (175g) max	
	Input		
		Input Efficiency	87.74% at 115Vac and 88.4% at 230Vac
		Input frequency range	47 to 63 Hz
		Input AC current	1.4A at 90VAC
	Output	Output power	45W
		Hold-up time	5m Sec. at 115 VAC input
		DC output	19.5V
		Output current limit	< 8.0A
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)
		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 65W EM Smart AC Adapter	Dimensions	4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)	
	Weight	0.62 lb (290g) max	
	Input		
		Input Efficiency	87.74% at 115Vac and 88.4% at 230Vac
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	Output power	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11.0A
	Connector		
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 16,400 ft (0 to 5,000 m)



Technical Specifications

EMI and Safety Certifications	<p>Humidity 20% to 95%</p> <p>Storage Humidity 10% to 95%</p> <p>*CE Mark - full compliance with LVD and EMC directives</p> <p>* 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.</p> <p>* MTBF - over 200,000 hours at 25°C ambient condition.</p>
HP 2-cell Polymer Battery (37.69 WHr)	<p>Cells/Type 2-cell Polymer</p> <p>Watt-hour capacity 37.69Whr</p> <p>Temperature</p> <p>Operating (Charging) 0° to 45° C</p> <p>Operating (Discharging) -10° to 60° C</p> <p>Non-operating</p> <p style="padding-left: 20px;">-20° ~ 60° C (1 month)</p> <p style="padding-left: 20px;">-20° ~ 45° C (3 month)</p> <p style="padding-left: 20px;">-20° ~ 30° C (6 month)</p>
Warranty	1 year limited

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.

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)	5.06 W	5.08 W	5.19 W
Normal Operation (Long idle)	2.78 W	2.83 W	2.78 W
Sleep	0.72 W	0.74 W	0.72 W
Off	0.16 W	0.24 W	0.16 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



Technical Specifications

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)	17 BTU/hr	17 BTU/hr	18 BTU/hr
Normal Operation (Long idle)	10 BTU/hr	10 BTU/hr	10 BTU/hr
Sleep	2 BTU/hr	3 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 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 _{WA} d, bels)	Sound Pressure (L _{pAm} , decibels)
Typically Configured – Idle	1.7	16
Fixed Disk – Random writes	1.7	16

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

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 the 1ppm by weight
Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium



Technical Specifications

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 www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 97.4% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	302 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	19 g
	PLASTIC/Polyethylene low density	18 g

The plastic packaging material contains at least 0% recycled content.

The corrugated paper packaging materials contains at least 80% recycled content.

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)
- 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)



Technical Specifications

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.

For more information about HP's commitment to the environment:

Hewlett-Packard Corporate Environmental Information

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 and availability may vary by country)

NOTE: Options/capabilities listed in the QuickSpecs represent those capabilities available through Base Units or Build to Order configurations. The various product features and capabilities will vary in terms of configurable vs. aftermarket options (AMOs). There may be options and capabilities available through CTO that are not available as AMOs.

Category	Description	Part number
Carrying Cases	HP Business Slim Top Load	H5M91AA
	HP Business Backpack	H5M90AA
	HP Essential Top Load Case (up to 15.6")	H2W17AA
Input/Output	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Optical Travel mouse	G1K28AA
	HP Slim Bluetooth Mouse	F3J92AA
	HDMI to VGA Adapter	H4F02AA
	HP HDMI to DVI Adapter	F5A28AA
	HP USB to Gigabit RJ45 Adapter	N7P47AA
Power	HP Power Bank	N9F71AA
	HP 45W Smart AC Adapter (4.5mm)	H6Y88AA
Storage	HP External USB Optical Drive	F2B56AA
Security	HP UltraSlim Keyed Cable Lock	H4D73AA



Summary of Changes

Date of change:	Version History:		Description of change:
September 11, 2015	Version 1 to 2	Added	Battery life page 3 and 7
November 11, 2015	V2 to v3	Added	Environmental data
July 11, 2016	V3 to v4	Changed	Line arts, call outs
September 2, 2016	V4 to v5	Removed	SIM card slot

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