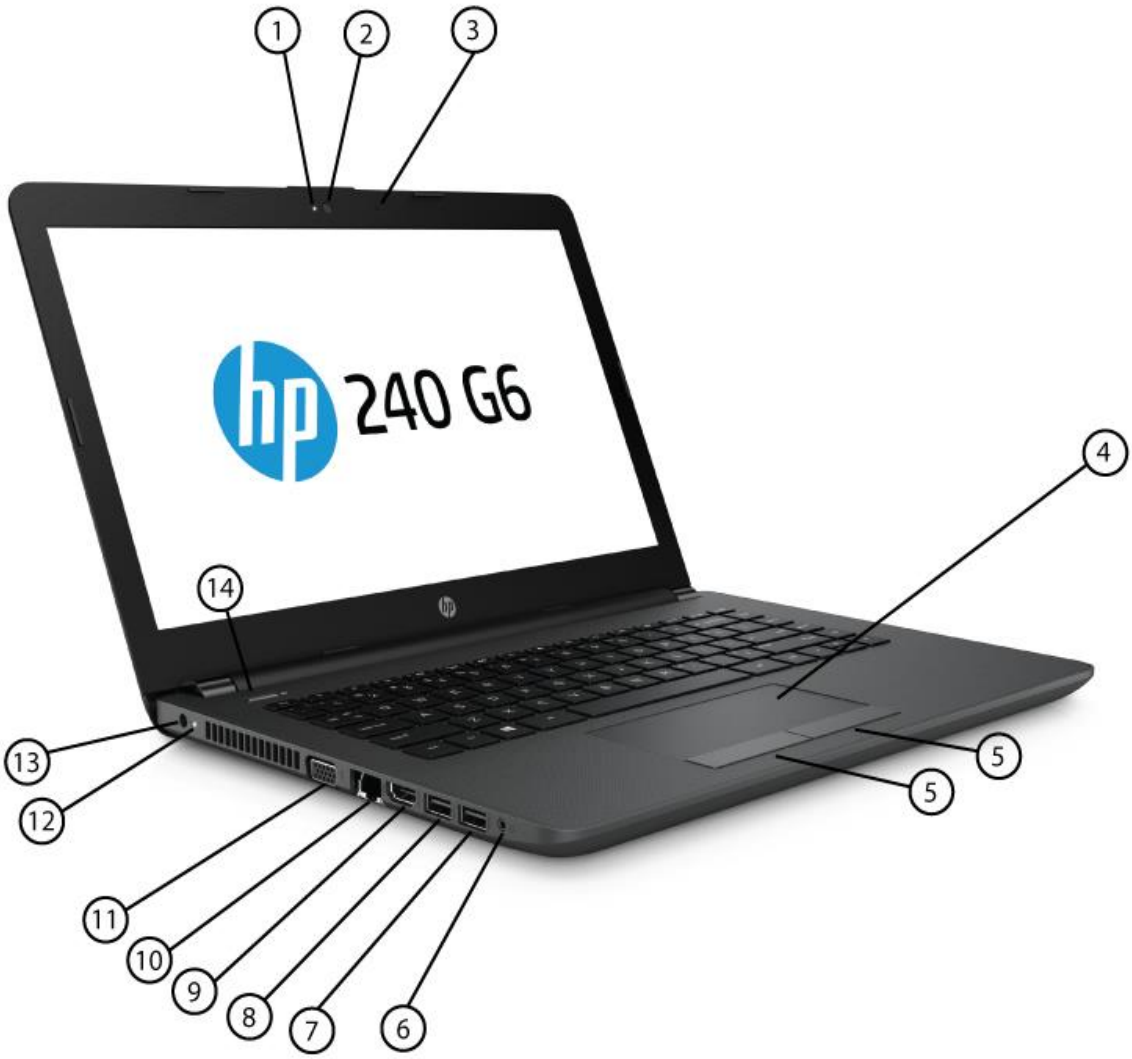
Overview

HP 240 G6 Notebook PC



Left

1. Webcam LED
2. Webcam
3. Microphone
4. Touchpad
5. Touchpad buttons
6. Audio in/out Combo Jack
7. USB 3.1 (Gen 1) port
8. USB 3.1 (Gen 1) port
9. HDMI port
10. RJ-45/Ethernet port
11. VGA port
12. AC plug LED
13. AC Smart Pin adapter plug
14. Power button

Overview

Right

1. Webcam LED
2. Webcam
3. Microphone
4. Security lock slot (Locks sold separately)
5. Optical drive (optional)
6. USB 2.0 port
7. SD Card slot
8. Hard drive indicator LED
9. Power indicator LED
10. Touchpad buttons
11. Touchpad
12. Power button

Overview

AT A GLANCE

- Windows 10 versions, FreeDOS 2.0, or Ubuntu Linux available
- Choice of the latest Intel® Core™ or Intel® Celeron® processors
- Intel® HD Graphics
- New Dark Ash Silver color with a fresh woven texture
- Display choices include 14.0" diagonal HD
- Choice of hard drives up to 1 TB
- Weight starting at: 4.08 lbs (1.85 kg)
- Security features including FW TPM 2.0 and security lock slot (Lock not included)
- Keyboard - Full size textured island-style keyboard
- Touchpad with gestures support
- HP webcam with single digital microphone and HD (supporting WDR- Wide Dynamic Range) or VGA camera
- Two USB 3.1 (Gen 1) ports and one USB 2.0 port
- Wireless LAN (WLAN) up to 802.11ac to keep you connected

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

Features

PRODUCT NAME

HP 240 G6 Notebook PC

OPERATING SYSTEM

Preinstalled OS

Windows 10 Pro 64[1]
Windows 10 Pro 64 (National Academic only)[1]
Windows 10 Home 64[1]
Windows 10 Home Single Language 64[1]
Windows 10 Home 64 (National Academic only)[1]
CPPP Windows 10 Home China Language Edition
FreeDOS
Ubuntu Linux

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/.

PROCESSOR

Intel® Core™ i5-7200U with Intel® HD Graphics 620 (2.5 GHz base frequency, up to 3.1 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores) [2,3]

Intel® Core™ i3-6006U with Intel® HD Graphics 520 (2 GHz, 3 MB cache, 2 cores) [2]

Intel® Celeron® N3060 with Intel® HD Graphics 400 (1.6 GHz base frequency, up to 2.48 GHz burst frequency, 2 MB cache, 2 cores) [2]

Intel® Core™ i3-7020U with Intel® HD Graphics 620 (2.3 GHz, 3 MB cache, 2 cores) [2,3]

Intel® Core™ i7-7500U with Intel® HD Graphics 620 (2.7 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) [2,3]

Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores) [2,3]

Intel® Celeron® N3350 with Intel® HD Graphics 500 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 2 MB cache, 2 cores) [2]

Intel® Celeron® Processor N4000 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.6 GHz burst frequency, 4 MB cache, 2 cores) [2]

Intel® Celeron® Processor N4100 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 4 MB cache, 4 cores) [2]

Intel® Pentium® Gold 4415U with Intel® HD Graphics 610 (2.3 GHz, 2 MB cache, 2 cores) [2]

Intel® Pentium® 4405U with Intel® HD Graphics 510 (2.1 GHz, 2 MB cache, 2 cores) [2]

Processor Family

8th Generation Intel® Core™ i5 processor (i5-8250U) [3]
7th Generation Intel® Core™ i7 processor (i7-7500U) [3]
7th Generation Intel® Core™ i5 processor (i5-7200U) [3]
7th Generation Intel® Core™ i3 processor (i3-7020U)[3]
6th Generation Intel® Core™ i3 processor
Intel® Pentium® Gold processor

Features

Intel® Pentium® processor
Intel® Celeron® processor

2. 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.

3. 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.

CHIPSET

Chipset is integrated with processor

Features

GRAPHICS

Integrated
Intel® HD Graphics 620[4]
Intel® HD Graphics 610[4]
Intel® HD Graphics 520[4]
Intel® HD Graphics 510[4]
Intel® HD Graphics 400[4]

Supports
HD Decode, DX12 and HDMI[5]

Optional discrete graphics
AMD® Radeon™ M520

4. HD content required to view HD images.
5. Cables sold separately.

DISPLAY

Internal
35.6 cm (14") diagonal HD WLED Anti-Glare (1366x768) slim-flat (3.0mm), SVA, eDP[4,6]
VGA
Port supports resolutions up to 1920 x 1200 external resolution @ 60 Hz
HDMI
Port supports resolutions up to 1920 x 1080 external resolution @ 60 Hz

4. HD content required to view HD images.
6. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage
512GB SATA TLC SSD
256GB SATA TLC SSD
128GB SATA TLC SSD
Support all 7mm/9.5mm, SATA 2.5" Hard Drives
1 TB SATA 5400 rpm SATA (7/9.5 mm)[7]
500 GB SATA 5400 rpm SATA (7 mm)[7]
500 GB SATA 7200 rpm SATA (7 mm)[7]
Optical Drive
Optional DVD+/-RW Double-Layer Writer[8,9]

7. 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.

Features

8. HD-DVD disks cannot be played on this drive. No support for DVDRAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs; discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.
9. Sold separately or as an optional feature.

MEMORY

Standard
DDR4 (Intel® Core™ i5-7200U, i3-6006U processors only)
DDR4-2133 (Transfer rates up to 2133 MT/s) (DDR4-2400 bridge to DDR4-2133)
Dual channel support
No customer accessible / upgradeable

Configurations
4096 MB Total System Memory (4096 MB x 1)
6144 MB Total System Memory (2048 MB x 1 + 4096 MB x 1)
8192 MB Total System Memory (4096 MB x 2)
8192 MB Total System Memory (8192 MB x 1)
12288 MB Total System Memory (8192 MB x 1 + 4096 MB x 1)
16384 MB Total System Memory (8192 MB x 2)

Maximum
16 GB DDR4-2133 SDRAM

Standard
DDR3L (Intel® Celeron® N3060 processor only)
DDR3L-1600 (Transfer rates up to 1600 MT/s)
Single channel support
No customer accessible / upgradeable

Configurations
2048 MB Total System Memory (2048 MB x 1)
4096 MB Total System Memory (4096 MB x 1)
8192 MB Total System Memory (8192 MB x 1)

Maximum
16 GB DDR3L-1600 SDRAM

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)
Realtek 802.11b/g/n (1x1) WiFi[10]
Realtek 802.11b/g/n (1x1) WiFi and Bluetooth® 4.0 Combo[10]
Intel® Dual band wireless-AC 3168 802.11AC (1x1) WiFi and Bluetooth® 4.2 Combo Adaptor (non-vPro)[10]
Intel® Dual Band Wireless-AC 7265 802.11 AC (2x2) WiFi and Bluetooth® 4.2 Combo Adapter (non-vPro)[10]
Ethernet
Integrated 10/100/1000 NIC
Communications
Compatible with Miracast-certified devices[11]

Features

10. 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.
11. 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.

AUDIO/MULTIMEDIA

Audio
2 Integrated stereo speakers
Camera
HP TrueVision HD Camera[4]
Indicator LED, USB2.0, HD BSI sensor, f2.0, WDR
720p by 30 frames per second
Single digital microphone
Webcam
HP Webcam[12]
VGA camera, indicator LED, USB 2.0, f2.4
480p by 30 frames per second
Single digital microphone

4. HD content required to view HD images.
12. Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.

KEYBOARDS/TOUCHPAD

Keyboard
Full size textured island-style keyboard
Jet black
Touchpad
Multitouch gestures enabled
Support Modern Trackpad Gestures
Taps enabled as default

SOFTWARE AND SECURITY

Preinstalled Software
Buy Office
HP JumpStart
Windows 10 Redstone1 Recovery Manager Installer - CPS
Windows 10 Redstone1 Push Button Reset Recovery - CPS
HP Support Assistant
HP PC Hardware Diagnostics UEFI
HP ePrint[13]
HP System Event Utility
CyberLink Power Media Player

Features

Bing Search for IE11
Security
firmware TPM 2.0
Security lock slot (Locks sold seperately)
McAfee LiveSafe

13. 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).

POWER

Power Supply
65W EM Smart AC adapter[14]
45W Smart AC adapter[14]

Primary Battery
HP 3-cell battery, 31 Whr Li-ion
HP 4-cell battery, 41 Whr Li-ion

Power Cord
1 M (3.28 feet) length power cord with sticker label

Battery life
7th Gen core CPU: Up to 9 hours 30 minutes[15]
6th Gen core CPU: Up to 9 hours[15]
Intel®Pentium and Celeron®: Up to 9 hours[15]

Fast Charge (90 mins, 90% charged)
Supports battery fast charge

14. Availability may vary by country.

15. 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 1.85 kg[16]
Starting at 4.08 lbs[16]
16. Weight varies by configuration and components.

Dimensions (W x D x H)
34 x 24 x 2.37 cm
13.39 x 9.45 x .93 in

PORTS/SLOTS

Features

Ports/Connectors

USB 3.1 (Gen 1) ports - Two (Left)
USB 2.0 port - One (Right)
HDMI 1.4b – One[17]
VGA port - One
RJ-45 / Ethernet – One[17]
Headphone / microphone combo jack - One
AC Smart adapter port – One

Slots

HP Multi-Format Digital Media Card Reader
Supports SD/SDHC/SDXC

17. All cables and locks are sold separately.

SERVICE AND SUPPORT

HP Services offers limited 1-year warranty; 1-year limited warranty on primary battery. On-site service is also available with optional HP Care Services, which extend protection beyond the standard limited warranty. To choose the right level of service for your HP product, use the HP Care Services Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Services, information by product is available at: http://www.hp.com/go/cpc.[18]

18. 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.

COMPATIBILITY

HP USB 3.0 Port Replicator (Spin 2) - Y4H06AA
HP Conferencing Keyboard - K8P74AA
HP 65W Smart Power Adapter - H6Y89AA
HP Essential Backpack (up to 15.6") - H1D24AA
HP Keyed Cable Lock 10mm - T1A62AA

CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance

UL
FCC Compliance
ENERGY STAR®[19]
EPEAT® Silver[20]
Australia / NZ C-Tick Compliance
CCC
Japan VCCI Compliance

Features

MIC / KCC
BSMI
CE Marking Compliance
GOST
Saudi Arabian Compliance (ICCP)
SABS

19.Configurations of the HP 240 G6 NoteBook is ENERGY STAR® qualified are identified as HP 240 G6 NoteBook ENERGY STAR on HP websites and on http://www.energystar.gov.
20. EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.

Technical Specifications

DISPLAYS

14" HD WLED Anti-Glare (1366x768) slim-flat (3.0mm), SVA, eDP	**Outline Dimensions** (W x H x D)	320.9 x 250.6 x 3.0	
	Active Area	309.5 x 174.05	
	Weight	270 max.	
	Diagonal Size	14.0"	
	Surface Treatment	AG	
	Contrast Ratio	600:1 (typ. AG)	
	Refresh Rate	60Hz	
	Pixel Per Inch (PPI)	112	
	Brightness	220 nit typ.	
	Pixel Resolution	**Format**	1366 x 768 (HD)
		Configuration	RGB
	Interface	eDP 1.2	
	LCD Mode	TN	
	Viewing Angle	45/45/20/40	

STORAGE AND DRIVES

500 GB 5400 rpm SATA Hard Drive	**Drive Weight**	<95g (0.209lb)	
	Capacity	500 GB	
	Height	6.8 +/- 0.2 mm (0.268 +/-.008 in)	
	Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)	
	Interface	SATA 6Gb/s	
	Performance	**Maximum Sequential Read**	600 MB/s max
		Maximum Sequential Write	600 MB/s max
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C)	
	Features	DIPM	

Technical Specifications

500 GB 7200 rpm SATA Hard Drive	**Drive Weight**	<95g (0.209lb)	
	Capacity	500 GB	
	Height	6.8 +/- 0.2 mm (0.268 +/-.008 in)	
	Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)	
	Interface	SATA 6Gb/s	
	Performance	**Maximum Sequential Read**	600 MB/s max
		Maximum Sequential Write	600 MB/s max
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C)	
	Features	DIPM	
1 TB 5400 rpm SATA Hard Drive	**Drive Weight**	90g(0.198lb)	
	Capacity	1TB	
	Height	7.0 (± 0.2) mm / 0.276 (± 008) in	
	Width	69.85 (± 0.25) mm / 2.750 (± 0.010) in	
	Interface	SATA 6Gb/s	
	Performance	**Maximum Sequential Read**	600 MB/s max
		Maximum Sequential Write	600 MB/s max
	Logical Blocks	1,953,525,168	
	Operating Temperature	32° to 140° F (0° to 60° C)	
	Features	DIPM	

NETWORKING/COMMUNICATIONS

WWAN

	Realtek RTL 8188EE 802.11 bgn 1x1 WiFi Adapter
Technology/Operating bands	2.4Ghz
Wireless protocol standards	11n
Maximum data rates	150Mbps
Maximum output power	FCC/11b at max. 17.5dBm
Maximum power consumption	934mW in Tx mode
Form Factor	M2 2230
Weight	2 g
Dimensions (Length x Width x Thickness)	22 mm x 30 mm x 2.3 mm

	Realtek RTL8723DE 802.11 bgn 1x1 WiFi + BT 4.2 Combo Adapter
Technology/Operating bands	2.4Ghz
Wireless protocol standards	11n
Maximum data rates	150Mbps
Maximum output power	CE/11g at max 17dBm
Maximum power consumption	736mW in Tx mode
Form Factor	M2 1630
Weight	2 g
Dimensions (Length x Width x Thickness)	16 mm X 30 mm x 2.3 mm

Technical Specifications

	Realtek RTL8723BE-VB 802.11b/g/n 1x1 Wi-Fi + BT4.0 Combo Adapter
Technology/Operating bands	2.4Ghz
Wireless protocol standards	11n
Maximum data rates	150Mbps
Maximum output power	FCC/11b at max. 16dBm
Maximum power consumption	878mW in Tx mode
Form Factor	M2 2230
Weight	2 g
Dimensions (Length x Width x Thickness)	22 mm X 30 mm x 2.3 mm

	Intel Dual band wireless-AC 3168 802.11AC 1x1 WiFi + BT 4.2 Combo Adaptor (non-vPro)
Technology/Operating bands	2.4Ghz/5G
Wireless protocol standards	11ac
Maximum data rates	433Mbps
Maximum output power	16.25dBm in 2.4G 17.25dBm in 5G
Maximum power consumption	1250 mW in 11ac 1x1 HB/80 Or 11n 1x1 HB/40
Form Factor	M2 2230
Weight	2 g
Dimensions (Length x Width x Thickness)	22 mm X 30 mm x 2.4 mm

Technical Specifications

	Intel Dual Band Wireless-AC 7265 802.11 AC 2x2 WiFi + BT 4.2 Combo Adapter (non-vPro)
Technology/Operating bands	2.4Ghz/5G
Wireless protocol standards	11ac
Maximum data rates	867Mbps
Maximum output power	17.25dBm in 2.4G 16.25dBm in 5G
Maximum power consumption	1580 mW in Wi-Fi: 802.11n link at 200 mbps, FTP transmitting 90% and FTP receiving 10%. Bluetooth: A2DP, 375 Kbps
Form Factor	M2 2230
Weight	2 g
Dimensions (Length x Width x Thickness)	22 mm X 30 mm x 2.4 mm

POWER

65 W Smart AC adapter	**Dimensions** (H x W x D)	107.0 x 47.0 x 30.0mm	
	Weight	250g +/-10%	
		Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
	Input	**Input frequency range**	47 to 63 Hz
		Input AC current	Max. 1.7 A at 90 Vac
	Output	**Output power**	65W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<11.0A
	Connector	C6 (3pin/with grounded, with Smart ID DC 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)
		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.	
65 W EM Smart AC adapter	**Dimensions** (H x W x D)	127.0x51.0x30.0mm	
	Weight	350g +/-10%	
		Input Efficiency	88.0 % at 115 Vac and 89.0 % at 230Vac
	Input	**Input frequency range**	47 to 63 Hz
		Input AC current	Max. 1.7 A at 90 Vac
	Output	**Output power**	65W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<11.0A
	Connector	C6 (3pin/with grounded, with Smart ID DC 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)
		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.	
45 W Smart AC adapter	**Dimensions** (H x W x D)	95.0 x 40.0 x 26.5 mm	
	Weight	200g +/-10%	
		Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
	Input	**Input frequency range**	47 to 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	C6 (3pin/with grounded, with Smart ID DC 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)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%

Technical Specifications

	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 3-cell Li-Ion (31 WHr)	**Dimensions**	274.15mm x 35.25mm x 21.1mm
	Weight	185g
	Cells/Type	3cell Lithium-Ion cylindrical cell / 18650
	Voltage	LGC: 10.95V; SDI/Sanyo: 11.1V
	Amp-hour capacity	LGC: 2850mAh;SDI/Sanyo:2800mAh
	Watt-hour capacity	LGC: 31.2Wh; SDI/Sanyo:31.08Wh
	Operating (Charging)	0~45˚C
	Operating (Discharging)	-10~60˚C
	Fuel Gauge LED	No
	Warranty	300 cycles>80%(at 23˚C)
	Optional Travel Battery Available	No
HP 4-cell Li-Ion (41 WHr)	**Dimensions**	274.15mm x 35.25mm x 21.1mm
	Weight	230g
	Cells/Type	4cell Lithium-Ion cylindrical cell / 18650
	Voltage	LGC: 14.6V; SDI/Sanyo:14.8V
	Amp-hour capacity	LGC: 2850mAh; SDI/Sanyo: 2800mAh
	Watt-hour capacity	LGC: 41.6Wh;SDI/Sanyo41.44Wh
	Operating (Charging)	0~45˚C
	Operating (Discharging)	-10~60˚C
	Fuel Gauge LED	No
	Warranty	300 cycles>80%(at 23˚C)
	Optional Travel Battery Available	No

Environmental Data

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®
- US Federal Energy Management Program (FEMP)
- EPEAT Gold Bronze, Silver, Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword *generator* on HP's 3rd party option store for solar energy accessory at http://www.hp.com/go/options.

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".

Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Sort idle)	8.53 W	8.62 W	8.64 W
Normal Operation (Long idle)	4.27 W	4.30 W	4.28 W
Sleep	0.67 W	0.69 W	0.67 W
Off	0.31 W	0.34 W	0.31 W

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	29 BTU/hr	29 BTU/hr	29 BTU/hr
Normal Operation (Long idle)	15 BTU/hr	15 BTU/hr	15 BTU/hr
Sleep	2 BTU/hr	2 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_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	1.6	16
Fixed Disk – Random writes	1.6	16
Optical Drive – Sequential reads		

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 the1ppm by weight
Cadmium greater than 20ppm by weight

Battery description: CR2032 (coin cell)
Battery type: Lithium
Battery description: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)
Battery type:

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 0.0% post-consumer recycled plastic (by wt.)
- This product is 97.0% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	341 g
Internal:	PLASTIC/Polyethylene Expanded - EPE	27 g
	PLASTIC/Polyethylene low density - LDPE	9 g

The plastic packaging material contains at least 0.0% recycled content.
The corrugated paper packaging materials contains at least 80.0% 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, 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.

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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

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

Category	Description	Part Number
Cases	HP Essential Top Load Case	H2W17AA
	HP Essential Backpack	H1D24AA
Docking	HP 3005PR USB3 Port Replicator	Y4H06AA
	HP USB Travel Dock	T0K30AA
	HP 3001pr USB 3.0 Port Replicator	F3S42AA
Input Devices	HP Slim USB Keyboard and Mouse	H4B81AA
	HP Slim Wireless Keyboard and Mouse	H6F25AA
	HP 3-Button USB Laser Mouse	G1K28AA
	HP USB Travel Mouse	N9K77AA
	HP Comfort Grip Wireless Mouse	N9K78AA
	HP Ultra Mobile Wireless Mouse	N2Z63AAA
	HP HDMI to DVI Adapter	V7W66AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
	HP 65W Smart AC Adapter	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
	HP Power Bank	N9F71AA#xxx
Memory	HP 4GB DDR3L-1600 1.35V SODIMM	H6Y75AA#XXX
	HP 8GB DDR3L-1600 1.35V SODIMM	H6Y77AA#XXX
Security	HP Essential Combination Lock	T0Y16AA
	HP Combination Lock	T0Y15AA
	HP Keyed Cable lock	T0Y14AA
	HP Keyed Cable Lock 10mm	T1A62AA
	HP 15.6 NB Privacy Filter (For Jaguars and Lions only)	J7H71AA
	HP 14.0" Notebook Privacy Filter (For Colts and Rams only)	J6E65AA
UCC	HP Conferencing Keyboard	K8P74AA#xxx
	HP UC Speaker Phone	K7V16AA
	HP UC Wired Headset	K7V17AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
Displays	HP S140u 14-inch Portable Display	G8R65AA
	HP ProDisplay P223 21-5 inch Monitor	X7R61AA
	HP ProDisplay P232 23-inch Monitor	K7X31AA
	HP ProDisplay P240va 23.8-inch Monitor	N3H14AA

Summary of Changes

Date of change:	Version History:		Description of change:
April 24, 2017	From v1 to v2	Update	Graphics Section Updated
May 02, 2017	From v2 to v3	Update	Tech specs and accessories added
July 27, 2017	From v3 to v4	Update	Software and security section updated
September 29, 2017	From v4 to v5	Update	Maximum memory updated
November 28, 2017	From v5 to v6	Update	McAfee LiveSafe added to Software and security section
			Enviromental data added
February 1, 2018	From v6 to v7	Update	3 new processors added to Processor section and 3 new SSD added to Storage and drives section
April 9, 2018	From v7 to v8	Update	Graphics and Processors Section
June 13, 2018	From v8 to v9	Update	Processor
November 14, 2018	From v9 to v10	Added	Processor and Graphic

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