Overview

HP 245 G6 Notebook PC
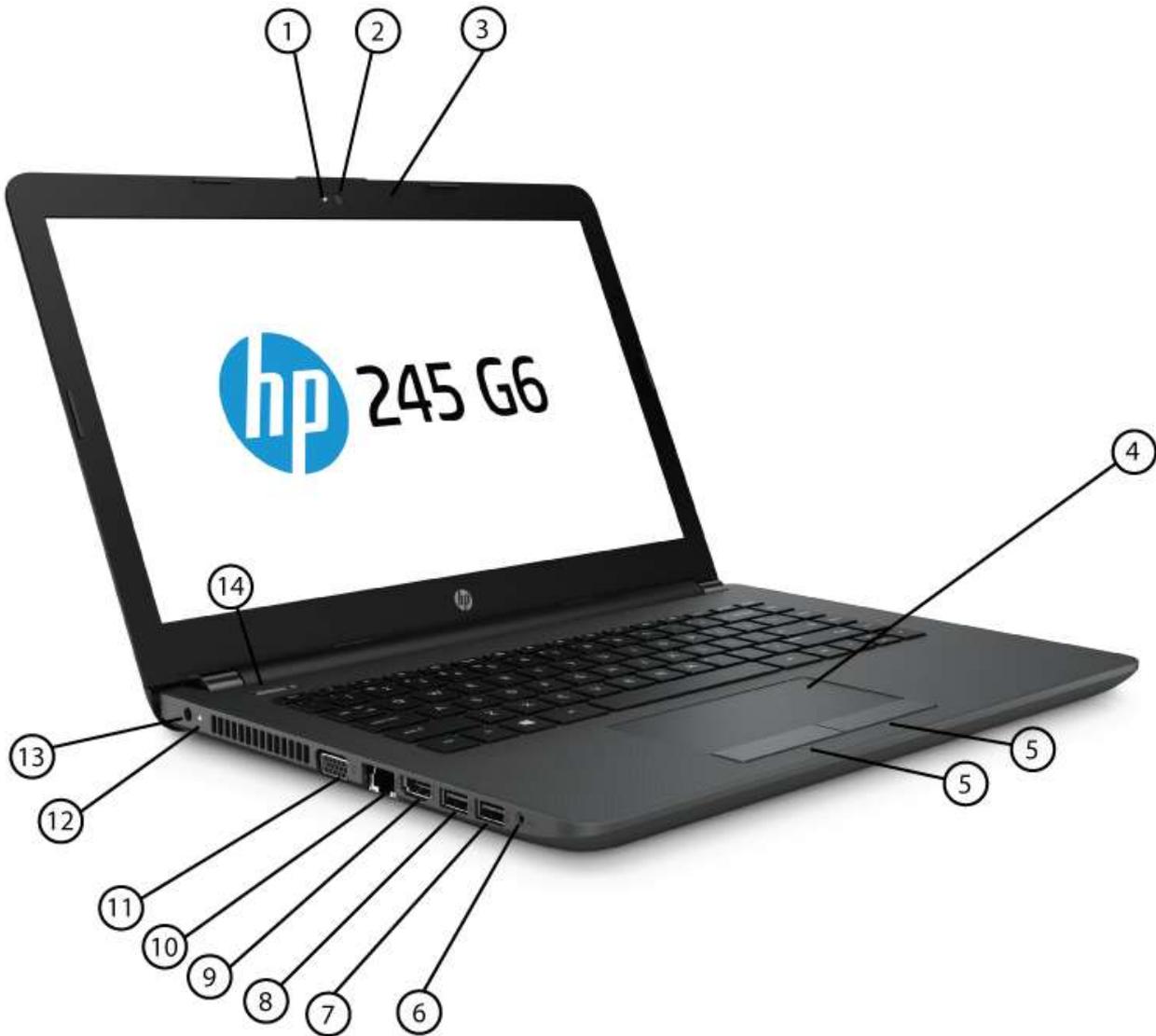
Left

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

Overview

Right

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

AT A GLANCE

- Windows 10 versions, FreeDOS 2.0
- Accelerated Processing Unit and graphics from AMD choose from
    - AMD A9-9420 APU with Radeon™ R5 Graphics
    - AMD A6-9220 APU with Radeon™ R4 Graphics
    - AMD E2-9000e APU with Radeon™ R2 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 245 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]
FreeDOS

NOTE 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

AMD A9-9425 APU with Radeon™ R5 Graphics (3.1 GHz, up to 3.7 GHz, 1 MB cache, 2 cores)

AMD A6-9225 APU with Radeon™ R4 Graphics (2.6 GHz, up to 3.0 GHz, 1 MB cache, 2 cores)

AMD A9-9420 APU with Radeon™ R5 Graphics (3.0 GHz, up to 3.6 GHz, 1 MB cache, 2 cores) [2,3]

AMD A6-9220 APU with Radeon™ R4 Graphics (2.5 GHz, up to 2.9 GHz, 1 MB cache, 2 cores) [2,3]

AMD E2-9000e APU with Radeon™ R2 Graphics (1.5 GHz, up to 2 GHz, 1 MB cache, 2 cores) [2,3]

Processor Family
7th Generation AMD A9 processor (9420 model) [3]
7th Generation AMD A6 processor (9220 model) [3]
7th Generation AMD E2 processor (9000e model) [3]

NOTE 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. AMD's numbering is not a measurement of clock speed.

NOTE 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

AMD SoC (chipset is integrated with processor)

Features

GRAPHICS

Integrated
AMD Radeon™ R5 Graphics
AMD Radeon™ R4 Graphics
AMD Radeon™ R2 Graphics
Supports
HD Decode, DX12 and HDMI[5]

NOTE 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

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

STORAGE AND DRIVES

Primary Storage
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]

NOTE 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.
NOTE 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.
NOTE 9: Sold separately or as an optional feature.

MEMORY

Standard
DDR4 (AMD A9-9420, A6-9220 processors only)
DDR4-1866 (Transfer rates up to 1866 MT/s) (DDR4-2400 downgrade to DDR4-1866)
Single channel support

Features

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 DDR4-1866 SDRAM
DDR4
DDR4-1866 (Transfer rates up to 1866 MT/s) (DDR4-2400 downgrade to DDR4-1866)
Single channel support
No customer accessible / upgradeable

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

Maximum
8 GB DDR4-1866 SDRAM

Features

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)
Realtek 802.11b/g/n (1x1) WiFi[10]
Realtek 802.11b/g/n (1x1) WiFi and Bluetooth® 4.2 Combo[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]

Ethernet
Integrated 10/100/1000 NIC
Communications
Compatible with Miracast-certified devices[11]

NOTE 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.
NOTE 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

NOTE 4: HD content required to view HD images.
NOTE 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

Features

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
Bing Search for IE11
Security lock slot (Locks sold separately)
McAfee LiveSafe

NOTE13: 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[15]
45W Smart AC adapter[15]

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

Up to 8 hours (4 cell battery)[16]

Fast Charge (90 mins, 90% charged)

Supports battery fast charge

NOTE 15: Availability may vary by country.

NOTE 16: 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.

Features

WEIGHTS & DIMENSIONS

Weight
Starting at 1.85 kg (4.08 lbs) [17]

NOTE 17: 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

Ports/Connectors
USB 3.1 (Gen 1) ports - Two (Left)
USB 2.0 port - One (Right)
HDMI 1.4b – One[18]
VGA port - One
RJ-45 / Ethernet – One[18]
Headphone / microphone combo jack - One
AC Smart adapter port – One

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

NOTE 18: All cables and locks are sold separately.

Technical Specifications

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.[19]

NOTE 19: 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®[20]
EPEAT® Silver[20]
Australia / NZ C-Tick Compliance
CCC
Japan VCCI Compliance
BSMI
CE Marking Compliance

NOTE 20: EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country.

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.

Technical Specifications

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	
500 GB 7200 rpm SATA Hard Drive	**Drive Weight**	<95g (0.209lb)	
	Capacity	500 GB	

Technical Specifications

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

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

Technical Specifications

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

Realtek RTL8723BE-VB 802.11b/g/n 1x1 Wi-Fi + BT4.0 Combo Adapter

Technical Specifications

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)

Technical Specifications

	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 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

Technical Specifications

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