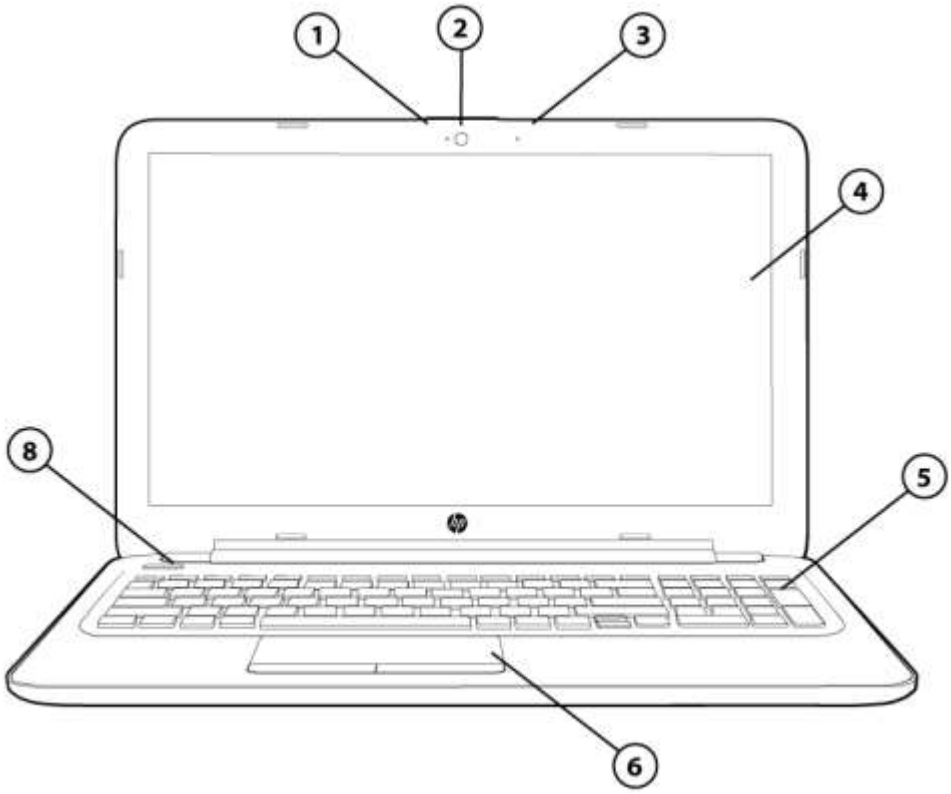
Overview

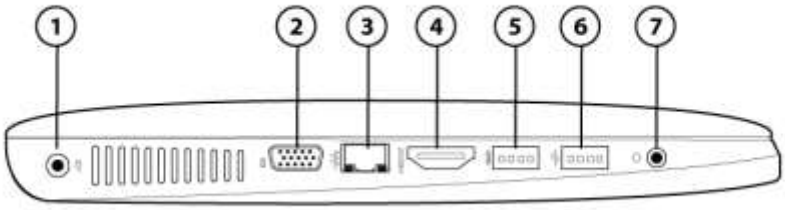
HP 250 G4 Notebook PC



Front view

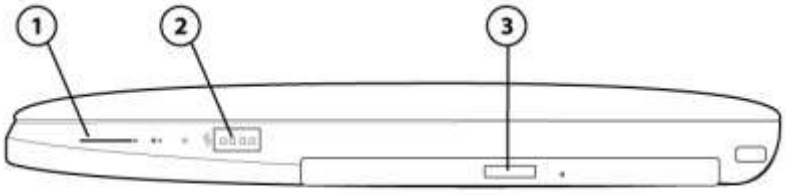
1. Webcam LED
2. Webcam
3. Microphone
4. 15.6" diagonal display
5. Keyboard
6. Touchpad
7. Power button

Overview



Left side view

1. Power connector
2. VGA port
3. RJ-45 (Ethernet)
4. HDMI port
5. USB port
6. USB port
7. Headphone / Microphone-in combo jack



Right side view

1. Card reader
2. USB port
3. Optical drive door (On select models)

Overview

AT A GLANCE

- Windows 10 versions, Windows 8.1 versions, Windows 7 Professional 64 bit (available through downgrade rights from Window 10 Pro 64 or Windows 8.1 Pro 64), Windows 7 Home Basic 64, FreeDOS 2.0
- Intel® Core™ i5 processor; Intel® Core™ i3 processor; Intel® Pentium® processor; Intel® Celeron® processor
- Integrated Intel® HD Graphics or Discrete AMD Radeon™ R5 M330
- Memory up to 8 GB
- Hard drives up to 1 TB
- 15.6" diagonal HD SVA anti-glare flat LED-backlit (1366 x 768)
- Full-sized textured black island-style keyboard
- Touchpad with multi-touch gestures enabled
- VGA port and HDMI port (for connecting to high-resolution displays)
- Integrated webcam and microphone
- Flexible wireless connectivity options
    - 802.11b/g/n (1x1) WiFi and Bluetooth® 4.0 Combo1,2
    - 802.11b/g/n (1x1) Wi-Fi1,2

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

Features

PRODUCT NAME

HP 250 G4 Notebook PC

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64[1]
Windows 10 Home 64[1]
Windows 8.1 Pro 64[1]
Windows 8.1 64[1]
Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64)[3]
Windows 7 Professional 64 (available through downgrade rights from Windows 8.1 Pro 64) [2]
Windows 7 Home Basic 64[4]
FreeDOS 2.0

1. Not all features are available in all editions or versions 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
2. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 8.1 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
3. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
4. China only.

PROCESSORS

Intel® Core™ i5-6200U with Intel® HD Graphics 520
(2.3 GHz, up to 2.8 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)[1]
Intel® Core™ i5-5200U with Intel® HD Graphics 5500
(2.2 GHz, up to 2.7 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)[1]
Intel® Core™ i3-5005U with Intel® HD Graphics 5500 (2 GHz, 3 MB cache, 2 cores))[1]
Intel® Core™ i3-4005U with Intel® HD Graphics 4400 (1.7 GHz, 3 MB cache, 2 cores)[1]
Intel® Pentium® N3700 with Intel® HD Graphics (1.6 GHz, up to 2.4 GHz, 2 MB cache, 4 cores)[1]
Intel® Celeron® N3050 with Intel® HD Graphics (1.6 GHz, up to 2.16 GHz, 2 MB cache, 2 cores)[1]

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

Intel® SoC (chipset is integrated with processor)

GRAPHICS

Integrated:
Intel® HD[1] Graphics 5500
Intel® HD[1] Graphics 4400
Intel® HD[1] Graphics 520
Intel® HD[1] Graphics

Discrete:
AMD Radeon™ R5 M330 (2 GB DDR3 dedicated, switchable)[2]

1. HD content required to view HD images.
2. Discrete graphics memory uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs.

DISPLAY

Internal
15.6" diagonal HD[1] SVA anti-glare flat LED-backlit (1366 x 768)

1. HD content required to view HD images.

External
Up to 32-bit per pixel color depth
VGA
Port supports resolutions up to 1920 x 1200 external resolution @60 Hz

HDMI
v1.4 supporting: up to 1920x1080 @ 60Hz (HDMI cable sold separately.)

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

STORAGE AND DRIVES

Primary Storage Bay
Supports all 7mm/9.5mm, SATA 2.5" Hard Drives

Hard Drives[1]
500 GB 5400 rpm SATA Hard Drive
750 GB 5400 rpm SATA Hard Drive
1 TB 5400 rpm SATA Hard Drive

500 GB 7200 rpm SATA Hard Drive

Features

1. For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) is reserved for system recovery software

OPTICAL DRIVES

Optional Optical Drive
DVD+/-RW SuperMulti DL Drive[1,2]

1. Double-layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. Note that this drive cannot read or write to 2.6 GB single-sided/5.2 GB double-sided – version 1.0 media. Don't copy copy-right protected materials.
2. Sold separately or as an optional feature.

MEMORY

Standard
DDR3L - 1600 (Transfer rates up to 1600 MT/s)
Dual channel support
NOTE: Memory is non customer accessible / upgradeable

2048 MB (2048 MB x 1)
4096 MB (2048 MB x 2)
4096 MB (4096 MB x 1)
6144 MB (2048 MB x 1 + 4096 MB x 1)
8192 MB (4096 MB x 2)
8192 MB (8192 MB x 1)

Maximum
Up to 8 GB

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

Wireless
802.11b/g/n (1x1) WiFi and Bluetooth® 4.0 Combo[1,2]
802.11b/g/n (1x1) Wi-Fi[1,2]

Note: Compatible with Miracast-certified devices (Windows 8.1)

Communications
Realtek Ethernet (10/100) NIC
Realtek Ethernet (10/100/1000) NIC (On select models)

1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

2. Sold separately or as an optional features.

AUDIO/MULTIMEDIA

Audio
DTS Studio Sound™
Dual speakers
Single digital microphone

Webcam
VGA Webcam (select models)
640 x 480 by 24 frames per second
HD[2] camera - Fixed (no tilt) (select models)
1280 x 720 by 30 frames per second

1. Internet access required.
2. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
Full-sized textured black island-style keyboard
Pointing Devices
Touchpad with multi-touch gestures enabled
Taps enabled as default
Default on for 2-finger scroll and pinch

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

Buy Office
Windows 8.1 Recovery Manager Installer
Cyberlink Media Suite
Cyberlink Youcam DE
Cyberlink Power DVD (available on select models)2Go Desktop
Cyberlink PowerDVD/Power Media Player 12 (On select models)
McAfee™ Central-Metro[1]
McAfee™ LiveSafe[1]
Getting Started with Win 8 Metro
Snapfish

Security
Firmware TPM[2] (Available on select models)
Security Lock slot (Lock sold separately)

1. 30 day trial period. Internet access required to receive updates. First update included. Subscription required for updates thereafter.
2. Requires Windows 8.1 and Broadwell CPU (Intel Core i5-5200U, i3-5005U or Intel Pentium 3825U processors).

Features

POWER

Power Supply
HP 45W Smart AC adapter (UMA SKU)
HP 65W Smart AC adapter (Discrete SKU)
HP 65W EM Smart AC adapter (China and India)

Primary Battery
3-cell, 31 WHr Li-ion
4-cell, 41 WHr Li-ion

Battery Life
TBD

System Standby Time
TBD

Power Conservation
Hibernation
Standby
ACPI compliance

WEIGHTS & DIMENSIONS

Weight

Starting at 4.73 lb / 2.2 kg
Weight will vary by configuration.

Dimensions (w x d x h)

15.12 x 10.02 x 0.95 in
38.43 x 25.46 x 2.43 cm

NOTE: Height varies depending upon where on the notebook the measurement is made.

PORTS/SLOTS

1 USB 3.0
2 USB 2.0
1 VGA
1 HDMI
1 Headphone / Microphone-in combo jack
1 AC power
1 RJ-45

NOTE: HDMI cable sold separately.

Digital Media Slots
Supports SD/SDHC/SDXC
Supports mini versions with adapter

Features

SERVICE AND SUPPORT

HP Services offers 1-year and 90 day limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. On-site service and extended coverage is also available. HP Care Pack Services[1,2] 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.

1. Sold separately or as an optional feature.
2. Service levels and response times for HP Care Services 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

Technical Specifications

STORAGE AND DRIVES

500GB* 7200 rpm SATA Hard Drive	**Drive Weight**	0.25 lbs (115g)	
	Capacity	500 GB	
	Height	0.275 in (7 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 3.0, 6.0 Gb/s, NCQ	
	Transfer Rate	**Synchronous** (maximum)	600 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	2 ms
		Average	13 ms
		Maximum	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	

*For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 8.1) of system disk is reserved for the system recovery software.

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	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**

Technical Specifications

ENERGY STAR® test method)			
Normal Operation	8.92 W	10.45 W	10.73 W
(Short idle)			
Normal Operation	7.03 W	6.65 W	7.04 W
(Long idle)			
Sleep	1.15 W	1.15 W	1.20 W
Off	0.29 W	0.30 W	0.29 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, 60Hz**
Normal Operation	31 BTU/hr	36 BTU/hr	37 BTU/hr
(Short idle)			
Normal Operation	24 BTU/hr	23 BTU/hr	24 BTU/hr
(Long idle)			
Sleep	4 BTU/hr	4 BTU/hr	4 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	3.1	24
Fixed Disk – Random writes	3.1	24

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)

Technical Specifications

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

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 94.9% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	408.1 g
Internal:	PLASTIC/EPE - Expanded Polyethylene	45 g
	PLASTIC/Polyethylene low density	10.6 g

The plastic packaging material contains at least 80.9% recycled content.
The corrugated paper packaging materials contains at least 75.8% 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)

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

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Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation	31 BTU/hr	36 BTU/hr	37 BTU/hr
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Technical Specifications

Normal Operation	24 BTU/hr	23 BTU/hr	24 BTU/hr
(Long idle)			
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

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

Technical Specifications

Additional Information

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- 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.
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- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
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- Polychlorinated Terphenyls (PCT)
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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)

Category	Description	Part Number
Carrying Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Professional Series Carrying Case (up to 15.6")	H4J90AA
Docking		
	HP Adjustable Display Stand	AW663AA
	HP LCD Monitor Stand	QM196AA
	HP 3001pr USB 3 Port Replicator	F3S42AA
Input/Output		
	HP Wireless Mobile Mouse	H2L63AA
	HP USB Essential Keyboard/Mouse	H2S75AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Stylish USB KB/Mouse	H4B80AA
Memory		
	HP 4GB DDR3L-1600 1.35V SODIMM	H6Y75AA
	HP 8GB DDR3L-1600 1.35V SODIMM	H6Y77AA
Adapters		
	HP 45W Smart AC Adapter (4.5mm) (PL MP only)	H6Y88AA
	HP 65W Smart AC Adapter (4.5mm)	H6Y89AA
	HP 90W Smart AC Adapter (4.5mm)	H6Y90AA
	HP 65W Slim AC Adapter	H6Y82AA
	HP 90W Slim AC Adapter	H6Y83AA
	HP 65W Smart Travel AC Adapter	J0E43AA
Security		
	HP Notebook Combo Lock	AY475AA
	HP UltraSlim Keyed Cable Lock	H4D73AA
	HP USB Smart Card Reader	F6V67AA
Storage		
	HP External USB Optical Drive	F2B56AA
	HP Wireless Display Adapter	J1V25AA
Health and Education		
	20 Notebook Charging Cart	QL488AA
	30 Notebook Charging Cart	H4F31AA
Monitors		
	HP V242h 24-inch LED Backlit Monitor	K6X12AA
	HP S140u 14-inch USB Monitor	G8R65AA/T

Summary of Changes

Date of change:	Version History:		Description of change:
April 29, 2015	V1 to v2	Added	Environmental data.
April 30, 2015	V2 to v3	Added	Updated footnote for Firmware TPM
July 8, 2015	V3 to v4	Updated	Operating System and footnotes page 3 and 4 Processors page 4 Graphics page 5 Storage footnote page 5
		Added	New disclaimer on availability in footer
July 30, 2015	V4 to V5	Added	New processors and new graphics pages 4 and 5

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