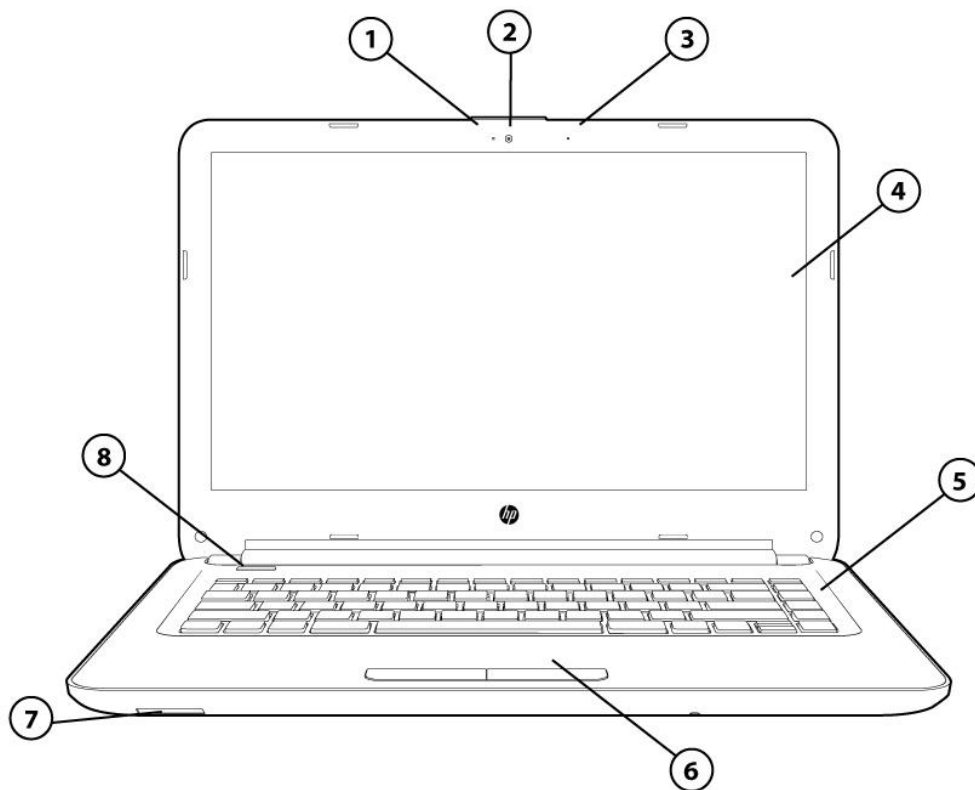


Overview

HP 245 G4 Notebook PC

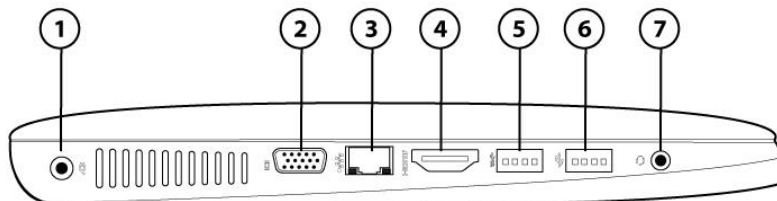


Front view

- | | |
|-------------------------|-----------------|
| 1. Webcam LED | 5. Keyboard |
| 2. Webcam | 6. Touchpad |
| 3. Microphone | 7. Card reader |
| 4. 14" diagonal display | 8. Power button |

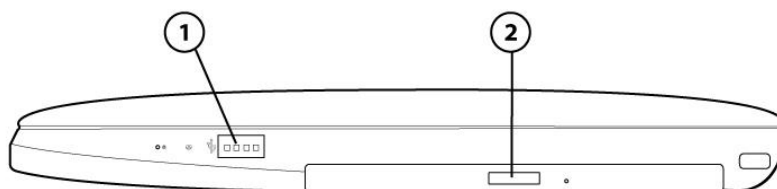


Overview



Left side view

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



Right side view

- | | |
|-------------|--|
| 1. USB port | 2. Optical drive door (On select models) |
|-------------|--|



Overview

AT A GLANCE

- Windows 10 versions, Windows 8.1 versions, Windows 7 Pro 64 bit (available through downgrade rights from Windows 10 Pro 64 or /Windows 8.1 Pro 64), Windows 7 Home Basic 64, FreeDOS 2.0, Ubuntu Linux
- AMD APUs (Accelerated Processing Unit) with Radeon™ Graphics
- Memory up to 8 GB
- Hard drives up to 1 TB
- Battery life up to 7 hours
- 14" 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 Combo
 - 802.11b/g/n (1x1) Wi-Fi

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



Features

PRODUCT NAME

HP 245 G4 Notebook PC

OPERATING SYSTEM

Preinstalled

Windows 10 Pro 64¹
Windows 10 Home 64¹
Windows 8.1 Pro 64¹
Windows 8.1 64¹
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
FreeDOS 2.0
Ubuntu Linux

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.

ACCELERATED PROCESSOR UNIT

AMD Dual-Core E1-6015 APU with Radeon™ R2 Graphics (1.4 GHz, 1 MB cache)¹
AMD Quad-Core A6-6310 APU with Radeon™ R4 Graphics (1.8 GHz, 2 MB cache)¹
AMD Quad-Core A8-7410 APU with Radeon™ R5 Graphics (2.2 GHz, 2 MB cache)¹

1. This system requires a separately purchased 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of AMD technology. Multi-core processing with AMD technology is designed to improve performance of this system. Given the wide range of SW applications available, performance will vary. AMD's numbering is not a measurement of clock speed.

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET



Not all configuration components are available in all regions/countries.
Americas- HP 245 G4 Notebook – October 2015 - c04582123

Features

Intel® SoC (chipset is integrated with processor)

GRAPHICS

Integrated:

AMD Radeon™ R2

AMD Radeon™ R4

AMD Radeon™ R5

AMD Radeon™ R5¹



Features

DISPLAY

Internal

14" diagonal HD¹ 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 1920 x 1080 @ 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 Drives¹

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

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

Two SODIMM slots

DDR3L-1333 Single Channel Support (DDR3L-1600 downgrade to DDR3L-1333) (Transfer rates up to 1333 MT/s)

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

NOTE: Memory is non customer accessible / upgradeable



Features

2048 MB (2048 MB x 1)
4096 MB (2048 MB x 2)
4096 MB (4096 MB x 1)
6144 MB (2048 MB x 1 + 4096MB 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 Sound™
Dual speakers
Single digital microphone

Webcam

VGA camera (select models)
640 x 480 by 24 frames per second
HD² 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



Features

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-Metro¹

McAfee™ LiveSafe¹

Getting Started with Win 8 Metro

Snapfish

Security

Firmware TPM² (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.

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 Life¹

APU, 41W Battery Non-touch sku	UMA Graphics	Discrete Graphics
AMD Dual-Core E1-6015 A	7 hours	N/A
AMD Quad-Core A6-6310	7 hours	7 hours



Features

AMD Quad-Core A8-7410	7 hours	N/A
-----------------------	---------	-----

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.

System Standby Time

TBD

Power Conservation

Hibernation

Standby

ACPI compliance

WEIGHTS & DIMENSIONS

Weight

Starting at 4.19 lb / 1.9 kg

Weight will vary by configuration.

Dimensions (w x d x h)

13.59 x 9.51 x .09 in

34.54 x 24.15 x 2.39 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 HDMI¹

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

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



Features

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

500 GB* 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".



Technical Specifications

**Energy Consumption
(in accordance with US
ENERGY STAR® test
method)**

	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	7.4 W	8.26 W	8.79 W
Normal Operation (Long idle)	4.79 W	4.93 W	4.76 W
Sleep	1.27 W	1.31 W	1.31 W
Off	0.28 W	0.36 W	0.28 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 (Short idle)	25 BTU/hr	28 BTU/hr	30 BTU/hr
Normal Operation (Long idle)	16 BTU/hr	17 BTU/hr	16 BTU/hr
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	2.2	22
Fixed Disk – Random writes	3.4	34

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



Technical Specifications

- 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

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 95.2 % recycle-able when properly disposed of at end of life.

Packaging Materials

External: PAPER/Corrugated 386 g

Internal: PLASTIC/EPE (Expanded Polyethylene) 45 g

PLASTIC/Polyethylene low density 22 g

The plastic packaging material contains at least 50 % recycled content.

The corrugated paper packaging materials contains at least 70 % 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



Technical Specifications

- 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/qcreport/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.

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 Slim Bluetooth Mouse	F3J92AA
	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	JOE43AA
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



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