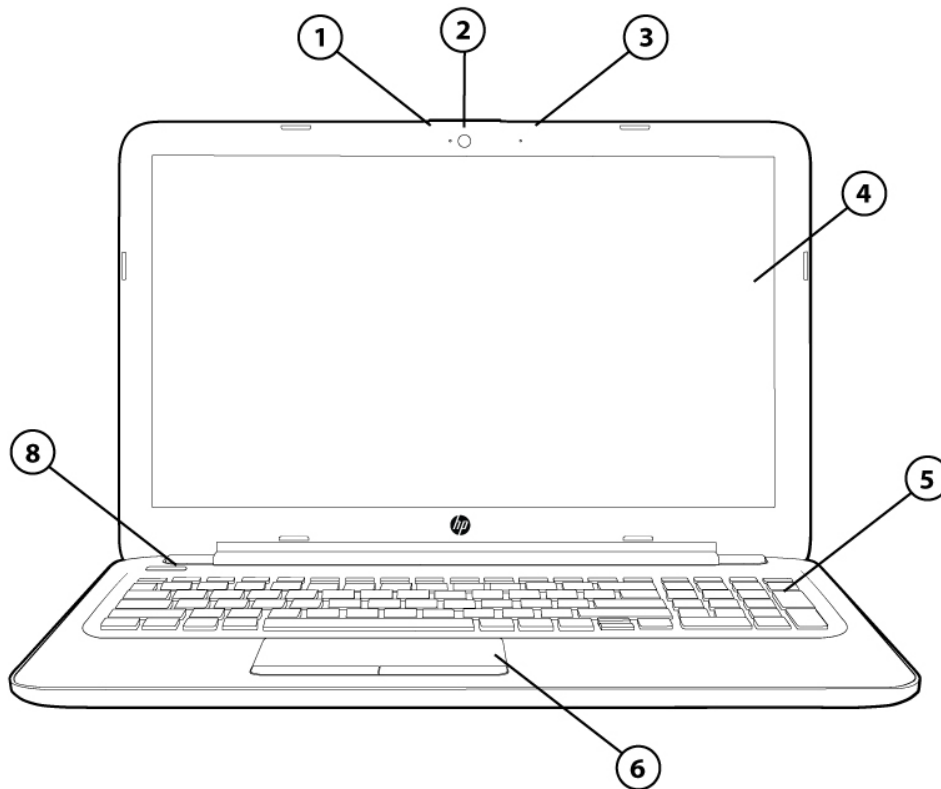


Overview

HP 250 G4 Notebook PC

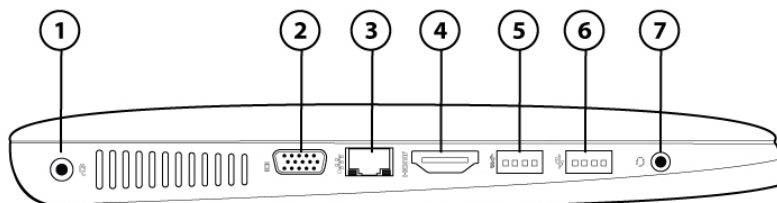


Front view

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



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



Overview

AT A GLANCE

- Windows 10 versions, Windows 8.1 versions, Windows 7 Professional 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
- 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 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
Windows 7 Home Basic 64⁴
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® Pentium® 3825U (1.6 GHz, up to 1.90 GHz, 2 MB cache, 2 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-



Features

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® HD¹ Graphics 5500

Intel® HD¹ Graphics 4400

Intel® HD¹ Graphics 520

Intel® HD¹ 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 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 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 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



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 (Intel® Core™ i5 and i3 processors & Broadwell Pentium 3825U)

Single channel support (Braswell Celeron N3050/Pentium N3700)

NOTE: Memory is non customer accessible / upgradeable

2048 MB (2048 MB x 1)

4096 MB (2048 MB x 2) (not applicable for Braswell Celeron N3050/Pentium N3700)

4096 MB (4096 MB x 1)

6144 MB (2048 MB x 1 + 4096 MB x 1) (not applicable for Braswell Celeron N3050/Pentium N3700)

8192 MB (4096 MB x 2) (not applicable for Braswell Celeron N3050/Pentium N3700)

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)



Features

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
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

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 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)
- 1 ExpressCard/54 slot



Technical Specifications

- 1 IEEE 1394 Port
- 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 than 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 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



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.

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>



Technical Specifications

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 | 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

Sound Power
(L_{WAd}, bels)

Sound Pressure
(L_{pAm}, decibels)



Technical Specifications

(in accordance with ISO 7779 and ISO 9296)

| | | |
|-----------------------------|-----|----|
| 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)
- 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 than 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 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



Technical Specifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf>):

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- 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>

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 |
| 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 |



Summary of Changes

| Date of change: | Version History: | | Description of change: |
|------------------------|-------------------------|---------|--|
| April 29, 2015 | Version 1 to 2 | 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 |
| September 8, 2015 | V5 to V6 | Updated | Header, processors page 4, and memory page 6 |

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