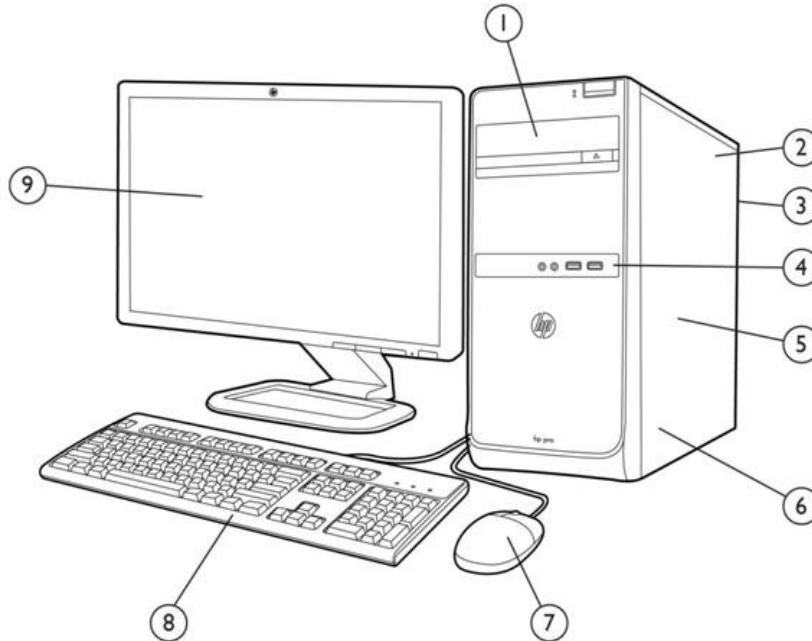


Overview (availability varies by configuration and by country)



- | | |
|--|--|
| 1. (1) external 5.25" drive bay | 5. (1) internal 3.5" hard drive bay |
| 2. 300 Watt Power Supply | 6. (3) PCIe x1 slots, (1) PCIe x16 slot, (1) miniPCIe slot |
| 3. Rear I/O includes: (4) USB 2.0 ports, RJ-45 Ethernet Port, DVI-D and VGA video Ports, microphone jack, audio in/out jacks (7.1 channel audio out) | 7. USB Scroll Mouse |
| 4. Front I/O includes: (2) USB 2.0 ports, headphone Port microphone jack | 8. HP USB Standard Value Keyboard |
| | 9. HP Monitor |

At A Glance

- Genuine Windows® 7 Professional Edition (32-bit or 64-bit), Genuine Windows 7 Ultimate Edition (64-bit), Genuine Windows 7 Home Premium Edition (64-bit), Genuine Windows 7 Home Basic Edition (64-bit), Genuine Windows 7 Starter Edition (32-bit), FreeDOS,
- Choice of AMD® A Series Quad-Core, AMD A Series Dual Core, and AMD E Series Dual Core processors
- Chipset AMD A55 FCH (Fusion Controller Hub)
- Choice of AMD Integrated Discrete-Class Graphics Controller based on processor
- Up to 8 GB DDR3 SDRAM system memory available standard (depending on model)
- Up to 1 TB 3.0 Gb/s SATA hard drive
- SuperMulti DVD Drive, SATA DVD-ROM
- Integrated Realtek RTL8111E PCI-E Gigabit Ethernet Controller
- (13) USB 2.0 ports (2 Front, 4 rear, 7 Internal)
- DVI-D and VGA video ports
- HP Wireless NIC 802.11b/g/n Mini Card (1x1) (optional)
- 7.1 audio channels
- Protected by HP Services. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Standard Features (availability varies by configuration and by country)

Processors

(Availability list is subject to change)

AMD A Series Quad-Core:

AMD Quad-Core A8-3850 APU with Radeon HD 6550D Graphics (2.9 GHz, 4 MB L2 cache) 100w

AMD Quad-Core A8-3800 APU with Radeon HD 6550D Graphics (2.7 GHz, 4 MB L2 cache) 65w

AMD Quad-Core A6-3650 APU with Radeon HD 6530D Graphics (2.6 GHz, 4 MB L2 cache) 100w

AMD Quad-Core A6-3600 APU with Radeon HD 6530D Graphics (2.4 GHz, 4 MB L2 cache) 65w

AMD A Series Dual Core:

AMD Dual-Core A4-3400 APU with Radeon HD 6410D Graphics (2.8 GHz, 1 MB L2 cache) 65w)

AMD E Series Dual Core:

AMD Dual-Core E2-3200 APU with Radeon HD 6370D Graphics (2.4 GHz, 1 MB L2 cache) 65w

Operating System**Preinstalled**

Genuine Windows 7 Professional Edition (32-bit)*

Genuine Windows 7 Professional Edition (64-bit)*

Genuine Windows 7 Ultimate Edition (64-bit)*

Genuine Windows 7 Home Premium Edition (64-bit)*

Genuine Windows 7 Home Basic Edition (64-bit)*

Genuine Windows 7 Starter Edition** (32-bit)*

FreeDOS

RedFlag Linux

* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

** Restrictions exist for this operating system. It is not available in some countries and is not compatible with some CPUs. Please check for availability.

Chipset

AMD A55 FCH (Fusion Controller Hub)

Standard Features (availability varies by configuration and by country)

Graphics

Integrated

AMD Integrated Discrete-Class Graphics Controller

CPU Model	Radeon™ Brand
A8-3850	HD 6550D
A8-3800	HD 6550D
A6-3650	HD 6530D
A6-3600	HD 6530D
A4-3400	HD 6410D
E2-3200	HD 6370D

Discrete GFX

AMD Radeon HD 6350 512MB DDR3 FH PCIe x16 Card
 AMD Radeon HD 6450 1GB DDR3 FH PCIe x16 Card
 AMD Radeon HD 6450 512MB DDR3 FH PCIe x16 Card
 AMD Radeon HD 6570 2GB DDR3 FH PCIe x16 Card

NVIDIA GeForce 405 512MB DDR3 FH PCIe x16 Card
 NVIDIA GeForce GT 520 1GB DDR3 FH PCIe x16 Card
 NVIDIA GeForce GT 530 2GB DDR3 FH PCIe x16 Card

System Memory

Memory Type	PC3-10600 (DDR3-1333) UDIMM Memory
Expansion Slots	Two (2) DIMM slots
Maximum Memory*	8 GB
Standard Configurations	1 GB (1 x 1GB) 2 GB (1 x 2GB) 3 GB (1 x 1GB + 1 x 2GB) 4 GB (1 x 4GB) 4 GB (2 x 2GB) 5 GB (1 x 4GB + 1 x 1GB) 6 GB (1 x 2GB + 1 x 4GB) 8 GB (2 x 4GB)

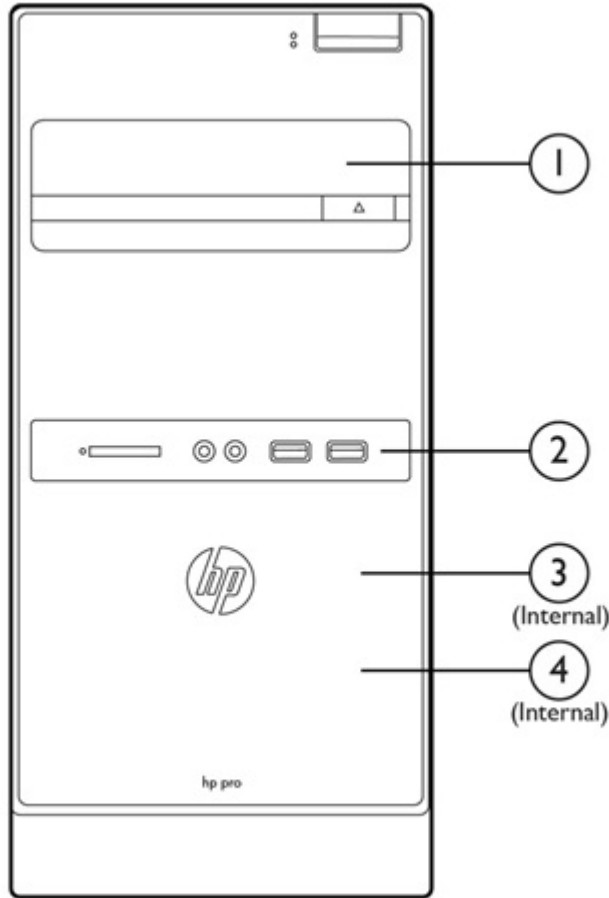
* For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.

Storage

Hard Drive (SATA) (up to 2 drives supported)	3.5-inch, 5400 rpm, SATA Hard Drive (NCQ, SMART III):	
	1.5 TB	2 TB
	3.5-inch, 7200 rpm, SATA Hard Drive (NCQ, SMART IV):	
	250 GB	750 GB
	320 GB	1 TB
	500 GB	
Media Reader	HP 6-in-1 Media Card Reader	
Optical Drive (SATA)	HP SATA 16X SuperMulti Drive HP SATA 16X/40X DVD-ROM	

Standard Features (availability varies by configuration and by country)

Bays	Internal	One (1) 3.5-inch
	External	One (1) 5.25-inch



	Maximum Quantity Supported	Position Supported	Controller
Drive Support			
Media Reader	1	2	Internal USB 2.0 port
SuperMulti DVD Drives	1	1	SATA
3.5" Serial ATA Hard Drives	1	3,4	SATA

Slots		
# PCI Express x1 slots	3	
# PCI Express x16 slots	1	
# MiniPCIe slots	1	

Standard Features (availability varies by configuration and by country)

Communication	Realtek RTL8111E Gigabit Ethernet Controller HP Wireless NIC 802.11b/g/n Mini Card (1x1) (optional)
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USB Support	Thirteen (13) ports available: <ul style="list-style-type: none">• 2 front ports• 4 rear ports• 7 internal ports HP USB 3.0 4-Port SuperSpeed FH PCIe x1 Card (Optional)
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Interfaces	One (1) DVI-D video port One (1) VGA video port One (1) RJ45 Ethernet port One (1) audio in; 7.1 audio channel out; one (1) microphone in
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Webcam	HP USB HD 720P Business Webcam (Optional – Americas Only)
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Displays	HP 2011x 20-inch LED Backlit LCD Monitor HP 2211x 21.5-inch LED Backlit LCD Monitor HP 2311x 23-inch LED Backlit LCD Monitor HP S2231a 21.5-in Wide Monitor HP S2031a 20-in Wide Monitor HP s2331a 23-Inch Wide Monitor HP v185es CCFL VGA No Speakers Monitor
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Audio	Realtek ALC656 HP Digital Stereo Headset (optional)
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Input Devices	Keyboard (Optional) HP USB Wired Keyboard w/ Vol Ctrl HP USB Standard Value Keyboard Mouse (Optional) HP USB Optical BLK Mouse
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Standard Features (availability varies by configuration and by country)

Software	Preinstalled software (varies by country)	Microsoft Office 2010 Home and Business Preloaded (full version) Microsoft Office 2010 Professional Preloaded (full version) Microsoft Office 2010 Starter Preloaded (purchase of a Product Key required to activate a full Office 2010 suite)* Microsoft Windows Virtual PC - XP Cyberlink PowerDVD Cyberlink Label Print Cyberlink Power 2 Go Norton Internet Security (60-day trial) PDF Complete Special Edition HP Power Assistant HP ProtectTools Security Suite SMB HP SimplePass PE 2011 HP MyRoom Xobni Quicken Financial Center (SBSO version) HP Recovery Manager HP Support Assistant (HPSA) HP Vision Hardware Diagnostics Vision Diagnostics
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* Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel, unless a full version suite is added to the configuration at additional cost. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and <http://www.office.com>.

** Supporting software available with certain optical drive configurations.

Power Supply	300W Active PFC power supply and 300W regular power supply
Model	300W Active PFC/300W regular
Rated Voltage Range	100 – 240 VAC
115V/230V Line switch	N/A

Service and Support On-site Warranty^{Note 1}: 1-1-1, limited warranty delivers on-site, next business-day^{Note 2} service for parts and labor and includes free telephone support^{Note 3} 24 x 7. Global coverage^{Note 2} ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty and service offering. One-year onsite and labor are not available in all countries.

NOTE 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

NOTE 2: On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

NOTE 3: Technical telephone support applies only to HP-configured Compaq and third-party HP-qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

Technical Specifications

System Unit	Dimensions (WxDxH)	6.5 x 15.31 x 14.49 in 165 x 389 x 368 mm
	Weight	15.28 lbs ~15.83 lbs 6.932 kg ~7.18 kg
	Packaging Dimensions (WxDxH)	9.45 x 20.39 x 19.52 in 240 x 518 x 496 mm
	Shipping Weight	21.94 lbs ~22.49 kg 9.952 kg ~10.2 kg
	Temperature	Operating 41° to 95° F (5° to 35° C) Non-operating -22° to 149° F (-30° to 65° C)
	Relative Humidity	Operating 8% to 90% (non-condensing at ambient) Non-operating 8% to 95% (non-condensing at ambient)
	Shock	Operating 40 G, half-sine Non-operating 35G, T-Shock, 165 cm/sec half sine, 2-3 ms
	Maximum Altitude (unpressurized)	Operating 10,000 ft (3048 m) Non-operating 30,000 ft (9144 m)
	Environmental	TAA Compliant Yes

For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

Unit Environment and Operating Conditions

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range.
- Leave a 4 in (10.2 cm) clearance on all vented sides of the computer to permit the required airflow.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.

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*](#) This product conforms to the examination standards (2003 version) under JEITA's 'Label System.'

System Configuration The configuration used for the Energy Consumption and Declared Noise Emissions data for the Microtower model is based on a typically configured product

Energy Consumption	230 VAC
Normal Operation	46.957 W
Sleep	1.538 W
Off	0.765 W

Heat Dissipation*	230 VAC
Normal Operation	160.2 BTU/Hr
Sleep	5.30 BTU/Hr
Off	2.61 BTU/Hr

* 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)**

(Typically Configured)	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	4.1	30
Fixed Disk (random writes)	4.4	32

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 5ppm by weight
- Cadmium greater than 10ppm 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 - 2002/95/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).
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is at least 65% recyclable when properly disposed of at end of life.

Technical Specifications

Packaging Materials

- External: (Carton)
 - 1145g
- Internal: (Cushion)
 - 192g
- Internal: (Bag for Chassis)
 - 35g
- Internal: (Accessory Bag)
 - 19g
- Internal: (Insert)
 - 39g

RoHS Compliance

Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

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/supplychain/gen_specifications.html):

- 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
- 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)
- Nickel finishes that release greater than 0.5 micro-grams/cm²/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

Packaging

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.

Technical Specifications

- 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://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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