QuickSpecs
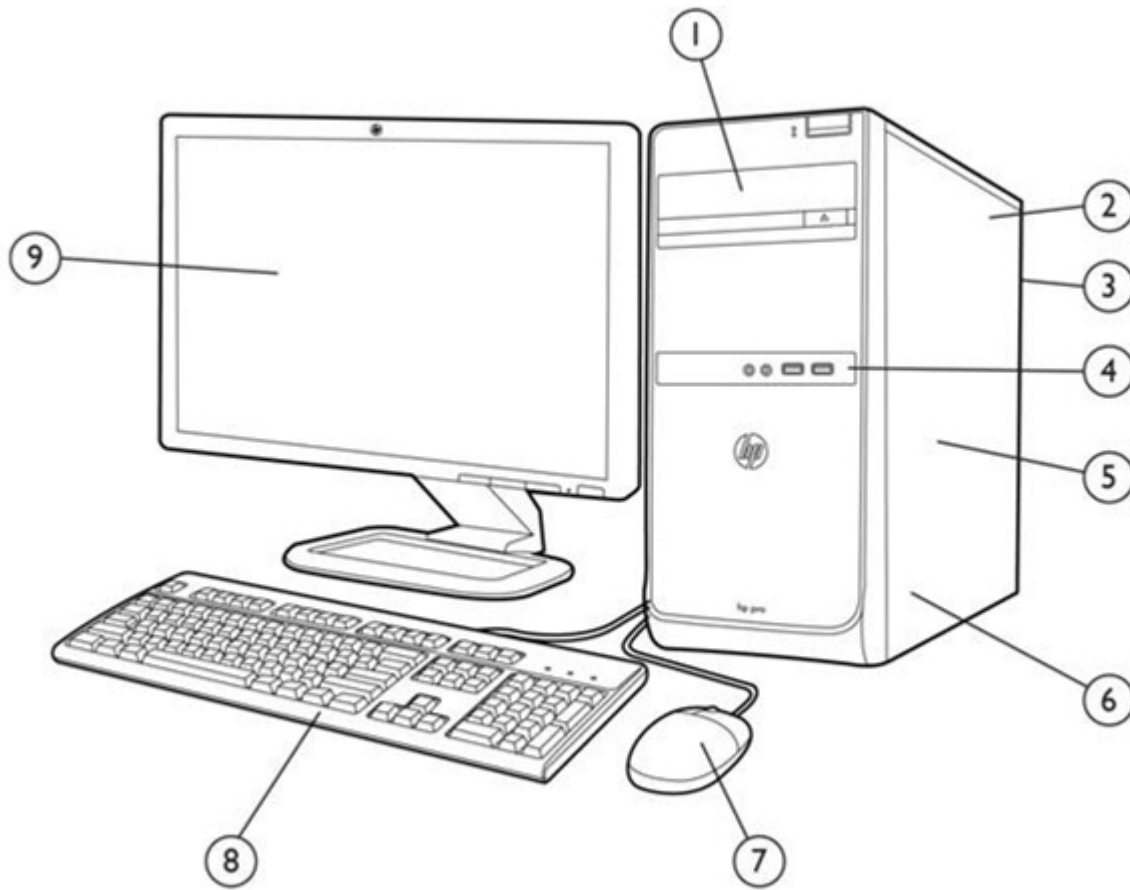
Overview (availability varies by configuration and by country)

1. (1) external 5.25" drive bay
2. 300 Watt Power Supply
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 (5.1 channel audio out)
4. Front I/O includes: (2) USB 2.0 ports, dedicated headphone Port, microphone jack
5. (1) internal 3.5" hard drive bay
6. (3) PCIe x1 slots, (1) PCIe x16 slot, (1) miniPCIe slot
7. USB Scroll Mouse
8. HP USB Standard Value Keyboard
9. HP Monitor

QuickSpecs

Overview (availability varies by configuration and by country)

At A Glance

- Genuine Windows® 7 Professional Edition (32- and 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, or RedFlag Linux
- Choice of Intel® Celeron™, Intel Pentium™ and Intel Core™ i3, Intel Core i5, and Intel Core i7 next generation processors
- Integrated graphics (Intel HD Graphics, Intel HD 2000 Graphics, Intel HD 3000 Graphics) based on processor
- Intel H61 Express Chipset
- 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 or DVD ROM Drive
- Integrated Realtek RTL8171E Gigabit Ethernet Controller
- (10) USB 2.0 ports, including (2) Front, (4) rear, (4) Internal
- DVI-D and VGA video ports
- HP Wireless NIC 802.11b/g/n Mini Card (1x1) (optional)
- 5.1 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)
	Intel Celeron (dual-core) Processors
	Intel Celeron G540 Processor (2.5 GHz, 2 MB cache, 2C/2T)
	Intel Celeron G530 Processor (2.4 GHz, 2 MB cache, 2C/2T)
	Intel Pentium Processors
	Intel Pentium G860 Processor (3.0 GHz, 3 MB cache, 2C/2T)
	Intel Pentium G850 Processor (2.9 GHz, 3 MB cache, 2C/2T)
	Intel Pentium G840 Processor (2.8 GHz, 3 MB cache, 2C/2T)
	Intel Pentium G630 Processor (2.7 GHz, 3 MB cache, 2C/2T)
	Intel Pentium G620 Processor (2.6 GHz, 3 MB cache, 2C/2T)
	Intel Core i3 Processors
	Intel Core i3-2130 Processor (3.4 GHz, 3 MB cache, 2C/4T, Turbo, HD 2000 Graphics)
	Intel Core i3-2120 Processor (3.3 GHz, 3 MB cache, 2C/4T, Turbo, HD 2000 Graphics)
	Intel Core i3-2105 Processor (3.1 GHz, 3 MB cache, 2C/4T, Turbo, HD 3000 Graphics)
	Intel Core i3-2100 Processor (3.1 GHz, 3 MB cache, 2C/4T, Turbo, HD 2000 Graphics)
	Intel Core i5 Processors
	Intel Core i5-2500 Processor (3.3 GHz, 6 MB cache, 4C/4T, Turbo, HD 2000 Graphics)
	    Up to 3.7 GHz with Intel Turbo Boost Technology
	Intel Core i5-2400 Processor (3.1 GHz, 6 MB cache, 4C/4T, Turbo, HD 2000 Graphics)
	    Up to 3.4 GHz with Intel Turbo Boost Technology
	Intel Core i5-2320 Processor (3.0 GHz, 6 MB cache, 4C/4T, Turbo, HD 2000 Graphics)
	    Up to 3.3 GHz with Intel Turbo Boost Technology
	Intel Core i5-2310 Processor (2.9 GHz, 6 MB cache, 4C/4T, Turbo, HD 2000 Graphics)
	    Up to 3.2 GHz with Intel Turbo Boost Technology
	Intel Core i5-2300 Processor (2.8 GHz, 6 MB cache, 4C/4T, Turbo, HD 2000 Graphics)
	    Up to 3.1 GHz with Intel Turbo Boost Technology
	Intel Core i7 Processors
	Intel Core i7-2600 Processor (3.4 GHz, 8 MB cache, 4C/8T, Turbo, HD 2000 Graphics)
	    Up to 3.8 GHz with Intel Turbo Boost Technology
	NOTE: Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

QuickSpecs

Standard Features (availability varies by configuration and by country)

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	Intel H61 Express Chipset

Graphics

Integrated   Intel HD Graphics

Processor Number	Core Freq.	Max. Turbo Boost	Integrated Graphics
G540	2.5 GHz		Intel HD Graphics
G530	2.4 GHz		Intel HD Graphics
G860	3.0 GHz		Intel HD Graphics
G850	2.9 GHz		Intel HD Graphics
G840	2.8 GHz		Intel HD Graphics
G630	2.7 GHz		Intel HD Graphics
G620	2.6 GHz		Intel HD Graphics
i7-2600	3.4 GHz	3.8 GHz	Intel HD 2000 Graphics
i5-2500	3.3 GHz	3.7 GHz	Intel HD 2000 Graphics
i5-2400	3.1 GHz	3.4 GHz	Intel HD 2000 Graphics
i5-2320	3.0 GHz	3.3 GHz	Intel HD 2000 Graphics
i5-2310	2.9 GHz	3.2 GHz	Intel HD 2000 Graphics
i5-2300	2.8 GHz	3.1 GHz	Intel HD 2000 Graphics
i3-2130	3.4 GHz		Intel HD 2000 Graphics
i3-2120	3.3 GHz		Intel HD 2000 Graphics
i3-2105	3.1 GHz		Intel HD 3000 Graphics
i3-2100	3.1 GHz		Intel HD 2000 Graphics

Standard Features (availability varies by configuration and by country)

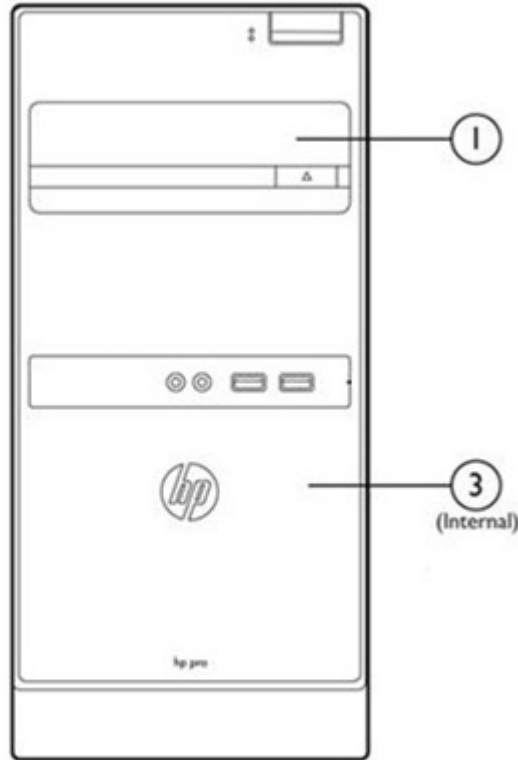| System Memory	Memory Type	PC3-10600 (DDR3-1333) UDIMM Memory
	Expansion Slots	Two (2) DIMM slots
	Maximum Memory*	8 GB
	Standard Configurations	1 GB (1 x 1GB)
		2 GB (1 x 2GB)
		3 GB (1 x 1GB + 1 x 2GB)
		4 GB (1 x 4GB)
		4 GB (2 x 2GB)
		5 GB (1 x 4GB + 1 x 1GB)
		6 GB (1 x 2GB + 1 x 4GB)
		8 GB (2 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)	3.5-inch, 7200 rpm, s SATA Hard Drive (NCQ, SMART IV):
		250 GB 750 GB
		320 GB 1 TB
		500 GB
	Optical Drive (SATA)	HP SATA 16X SuperMulti Drive
		HP SATA 16X/40X DVD-ROM

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

Standard Features (availability varies by configuration and by country)

	Maximum Quantity Supported	Position Supported	Controller
Drive Support			
SuperMulti DVD Drives	1	1	SATA
3.5" Serial ATA Hard Drives	1	3	SATA

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

Communication	Realtek RTL8171E Gigabit Ethernet Controller
	HP Wireless NIC 802.11b/g/n Mini Card (1x1) (optional)

Standard Features (availability varies by configuration and by country)

USB Support	EHCI high-speed USB 2.0 controller
	Ten (10) ports available:

- (2) front ports
- (4) rear ports (4) Internal

HP USB 3.0 4-Port SuperSpeed FH PCIe x1 Card (Optional)

Interfaces	One (1) DVI-D video port
	One (1) VGA video port
	One (1) RJ45 Ethernet port
	One (1) audio in; 5.1 audio channel out; one (1) microphone in

Webcam	HP USB HD 720P Business Webcam - (Optional - Americas Only)

Displays	HP S1933 18.5" Monitor
	HP Compaq LE2002x 20" Monitor

Audio	Realtek ALC656

Input Devices	**Keyboard**
	HP USB Standard Value Keyboard
	Mouse
	HP USB Optical Mouse

Software	**Preinstalled software (varies by country)**	Microsoft Office 2010 Home and Business Preloaded (purchase of a Product Key required to activate a full Office 2010 suite)*
		Microsoft Office 2010 Professional Preloaded(purchase of a Product Key required to activate a full Office 2010 suite)*
		Microsoft Office Starter 2010 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 2012(60-day trial)
		PDF Complete Special Edition
		HP Power Assistant
		HP ProtectTools Security Suite for SMB
		HP SimplePass PE 2011
		HP MyRoom
		Xobni
		Quicken Financial Center (SBSO version)
		Customer Feedback Questionaire
		HP Recovery Manager

Standard Features (availability varies by configuration and by country)

HP Support Assistant (HPSA)
HP Vision Hardware Diagnostics
Vision Diagnostics
Newspaper Direct e-Reader
Skype Offer
Zinio e-Reader
Blio K-NFB Tech e-Reader
Kobo e-Reader

* 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 (HxWxD)	14.49 x 6.50 x 15.31 in 368x 165 x 389mm	
	Weight	15.28 lbs ~15.83 lbs 6.932 kg ~7.18 kg	
	Packaging Dimensions (LxWxH)	19.52 x 9.45 x 20.39 in 496x 240 x 518 mm	
	Shipping Weight	21.94 lbs ~22.49 kg 9.952 kg ~10.2 kg	
	Temperature	Operating	32° to 104° F (0to 40° C)
		Non-operating	-22° to 149° F (-30° to 65° C)
	Relative Humidity	Operating	10% to 90% (non-condensing at ambient)
		Non-operating	5% 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	55.63 W
Sleep (Energy Star low power mode)	1.45 W
Off	0.90 W

Heat Dissipation*	230 VAC
Normal Operation	189.9BTU/Hr
Sleep	4.95BTU/Hr
Off	3.07BTU/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)

System Fan on with active graphic card	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	4.1	30
HDD random seek	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 the 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.

Packaging Materials

Technical Specifications

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

RoHS2 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.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.

Technical Specifications

- 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