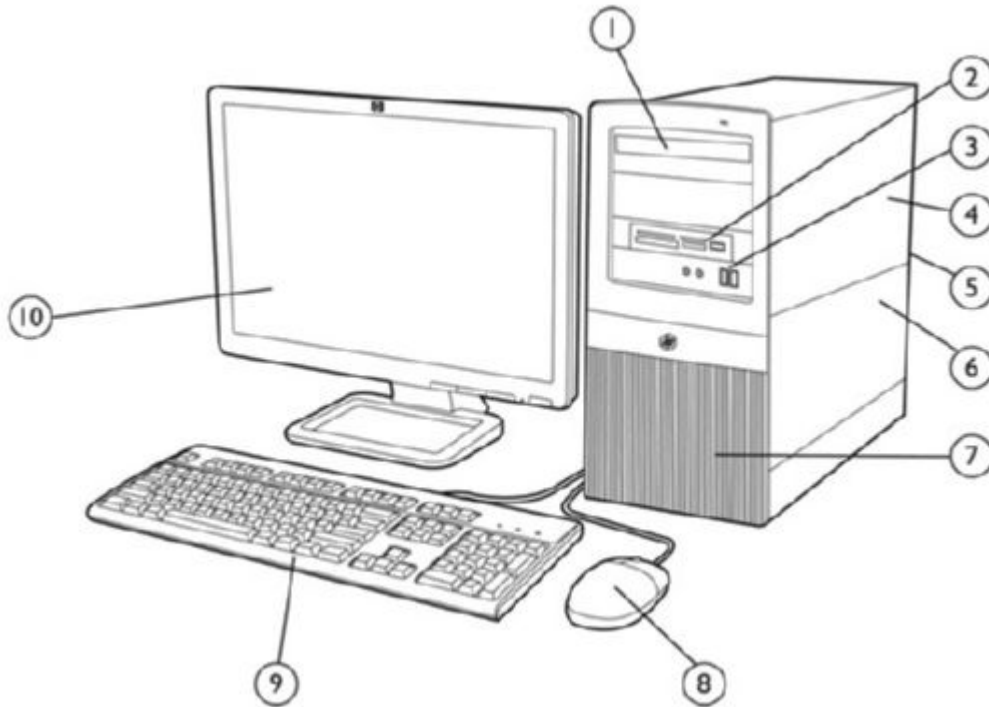# QuickSpecs

Overview (availability varies by configuration and by country)

1. (2) external 5.25" drive bays for optional optical drives
2. (1) external 3.5" drive bay for optional media reader
3. Front I/O includes: (2) USB 2.0 ports, dedicated headphone output, microphone jack
4. Power Supply
5. Rear I/O includes: (4) USB 2.0 ports, SPDIF out, RJ-45 network interface, DVI-I video interfaces, HDMI port, microphone jack, audio in/out jacks, 7.1 channel audio jacks
6. (3) PCIe x1 slots, (1) PCIe x16 slot, (1) miniPCI slot
7. (2) internal 3.5" hard drive bays
8. USB Scroll Mouse
9. USB HP Standard Keyboard
10. Monitor (sold separately)

At A Glance

- Genuine Windows 7 versions, Genuine SuSE Linux Enterprise Desktop 11, or FreeDOS
- Choice of Intel® Core™ i3,Core i5, or Core i7 processor
- Choice of integrated graphics or ATI or NVIDIA graphics cards
- Up to 16 GB DDR3 SDRAM system memory available standard
- Up to 2 TB 3.0 Gb/s SATA hard drive
- Choice of optical drives: DVD-ROM, SuperMulti LightScribe DVD Drive, or Blu-Ray Writer
- Integrated Realtek 8111E Gigabit Ethernet Controller
- USB 2.0 ports
- DVI-I video port
- HDMI port
- 7.1 audio channels
- Protected by HP Services. Terms and conditions vary by country. Certain restrictions and exclusions apply.

NOTE: Please refer to the Hardware Reference Guide before you upgrade.

QuickSpecs

Standard Features (availability varies by configuration and by country)

Processors
(Availability depends on model; list is subject to change)

Intel Core i3 Processors:

Intel Core i3-2100 Processor (3.1 GHz, 3 MB cache, 2C/4T)

Intel Core i3-2120 Processor (3.3 GHz, 3 MB cache, 2C/4T)

Intel Core i5 Processors:

Intel Core i5-2300 Processor 2.8 GHz, 6 MB cache, 4C/4T)

Intel Core i5-2400 Processor (3.1 GHz, 6 MB cache, 4C/4T, Turbo)
  Up to 3.4 GHz with Intel Turbo Boost Technology

Intel Core i5-2500 Processor (3.3 GHz, 6 MB cache, 4C/4T, Turbo)
  Up to 3.7 GHz with Intel Turbo Boost Technology

Intel Core i7 Processors:

Intel Core i7-2600 Processor (3.4 GHz, 8 MB cache, 4C/8T, Turbo)
  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.

Operating System

Preinstalled

Genuine Windows 7 Professional Edition (32-bit)*
Genuine Windows 7 Professional Edition (64-bit)*
Genuine Windows 7 Home Premium Edition (32-bit)*
Genuine Windows 7 Home Premium Edition (64-bit)*
Genuine Windows 7 Ultimate Edition (32-bit)*
Genuine Windows 7 Ultimate Edition (64-bit)*
Genuine Windows 7 Home Basic Edition (32-bit)*
Genuine Windows 7 Home Basic Edition (64-bit)*
SuSE Linux Enterprise Desktop 11
FreeDOS

* 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.

Chipset

Intel H67 Express Chipset

Graphics

Integrated

Graphics Cards
(List is subject to change)

Integrated Intel Graphics Media Accelerator HD, DirectX1 11 capable

ATI Radeon HD 5450 (1GB) FH PCIe x16 Graphics Card

ATI Radeon HD 5450 (512MB) FH PCIe x16 Graphics Card

ATI Radeon HD 6450 (1GB) FH PCIe x16 Graphics Card

ATI Radeon HD 6450 (512MB) FH PCIe x16 Graphics Card

ATI Radeon HD 6570 (1GB) FH PCIe x16 Graphics Card

ATI Radeon HD 6570 (2GB) FH PCIe x16 Graphics Card

NVIDIA GeForce G210 HDMI (512MB) PCIe x16 Graphics Card

NVIDIA GeForce GT405 (1GB) FH DDR3 PCIe x16 Graphics Card

NVIDIA GeForce GT420 (2GB) PCIe x16 Graphics Card

NVIDIA GeForce GT440 (1.5GB) PCIe x16 Graphics Card

NVIDIA GeForce GT440 (3GB) PCIe x16 Graphics Card

Standard Features (availability varies by configuration and by country)

System Memory	**Memory Type**	PC3-10600 DDR3 SDRAM (1066/1333MHz) non-ECC
	Expansion Slots	Four (4) DIMM slots
	Maximum Memory*	16 GB
	Standard Configurations	1 GB (1 x 1GB) 2 GB (2 x 1GB) 2 GB (1 x 2GB) 3 GB (1 x 1GB + 1 x 2GB) 4 GB (4 x 1GB) 4 GB (2 x 2GB) 4 GB (1 x 4GB) 5 GB (2 x 2GB + 1 x 1GB) 6 GB (3 x 2GB) 7 GB (3 x 2GB + 1 x 1GB) 8 GB (4 x 2GB) 8 GB (2 x 4GB) 16 GB (4 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.
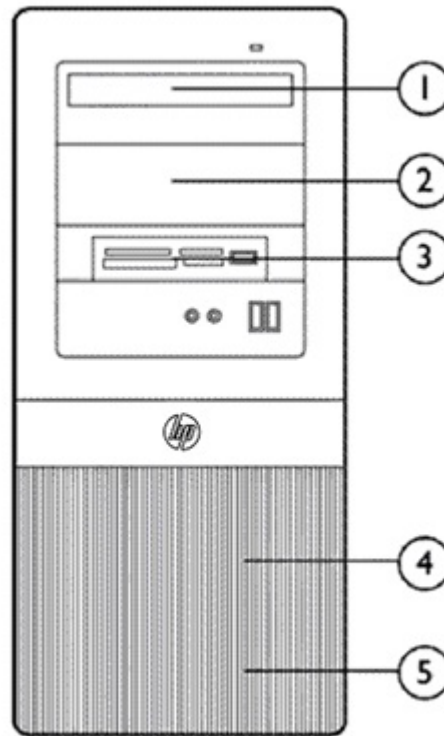
Storage	**Hard Drive (SATA)**	3.5-inch, 7200 rpm, 3.0 Gb/s SATA Hard Drive (NCQ, SMART):

160 GB	750 GB
250 GB	1 TB
320 GB	1.5 TB
500 GB	2 TB
640 GB	

3.5-inch, 7200 rpm, 6.0 Gb/s SATA Hard Drive (NCQ, SMART)*

250GB
320GB
500GB
750GB
1 TB

3.5-inch, 5400 rpm, 3.0 Gb/s SATA Hard Drive (NCQ, SMART):

1 TB
1.5 TB
2 TB

* Because the Intel H67 chipset does not support SATA 6.0Gb/s, these hard drives will operate at 3.0Gb/s on HP Elite 7200

	Media Reader	HP 22-in-1 Media Card Reader
	Optical Drive (SATA)	DVD-ROM Drive SuperMulti LightScribe DVD Drive HP SATA Blu-ray Writer

Bays	**Internal**	Two (2) 3.5-inch
	External	Two (2) 5.25-inch; One (1) 3.5-inch

Standard Features (availability varies by configuration and by country)

	Maximum Quantity Supported	Position Supported	Controller
Drive Support			
Media Reader	1	3	Internal USB 2.0 port
USB Ports	2	3 (below)	Internal USB 2.0 port
DVD-ROM Drives	2	1, 2	SATA
SuperMulti LightScribe Drives	2	1, 2	SATA
HP Blu-Ray Writer	2	1, 2	SATA
3.5" Serial ATA Hard Drives	2	4, 5	SATA

Slots	# PCI 2.3 slots	0
	# PCI Express x1 slots	3
	# PCI Express x16 slots	1
	# MiniPCI slots	1

Communication Integrated Realtek 8111E Gigabit Ethernet Controller
Intel Gigabit CT Desktop NIC

QuickSpecs

Standard Features (availability varies by configuration and by country)

USB Support	EHCI high-speed USB 2.0 controller

Six (6) internal ports on system board:

- 2 for front ports
- 2 for media card reader
- 4 reserved for future upgrade

External USB 2.0 ports

Front	2
Rear	4

Interfaces	One (1) DVI-I video port
	One (1) HDMI port
	One (1) RJ45 network port
	One (1) SPDIF out
	One (1) audio in; 5.1/7.1 audio channel out; one (1) microphone in

Audio	IDT 92HD89E High Definition audio codec

Input Devices	**Keyboard - One of the following**
	HP USB PS/2 Washable Keyboard
	HP USB Standard Keyboard
	HP USB Mini Keyboard
	HP USB Smartcard Keyboard
	HP USB Standard Value Keyboard
	Mouse - One of the following
	HP USB Optical BLK Mouse
	HP USB Laser BLK Mouse
	HP USB Optical Mouse
	HP Wireless Optical Mouse

Miscellaneous	HP Chassis Security Kit

Standard Features (availability varies by configuration and by country)

Software	**Preinstalled software (varies by country)**	Microsoft Office 2010 Preloaded (purchase of a Product Key required to activate a full Office 2010 suite)*
		Microsoft Windows Virtual PC - XP
		Mozilla Firefox for HP Virtual Solutions
		Roxio Creator Business 10 HD**
		Corel WinDVD 8**
		Corel WinDVD BD for Blu-Ray**
		Norton Internet Security 2011 (60-day trial)
		PDF Complete
		HP Power Assistant
		HP ProtectTools Suite SMB
		USB Port Disable
		Sun Java Runtime Environment
		Quicken Financial Center (SBSO version)
		Xobni

* 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.

Security   Padlock loop

Kensington Lock Support

Noble Universal Clamp Lock Cable Kit

HP Chassis Security Kit

Power Supply	300W aPFC power supply
Model	300W aPFC
Rated Voltage Range	100 - 240 VAC
115V/230V Line switch	N/A

Service and Support   On-site Warranty[Note 1]: 1-1-1, 1-1-0, 2-2-0, 3-3-0, 3-1-1, 3-3-3, 3-3-3 limited, 4-4-4, 5-5-5 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.

After-Market Options (availability varies by configuration and by country)

Communications	**NICs**	
	Intel Gigabit CT Desktop NIC	FH969AA
	Modems	
	LSI PCIe x1 56K International SoftModem	FH970AA
	HP RJ11 Modem Adapter Kit	DC131C
Hard Disk Drives	HP 1-TB SATA 3.0-Gb/s Hard Drive	VU353AA
	HP 500-GB SATA 3.0-Gb/s Hard Drive	KW347AA
	HP 320-GB SATA 3.0-Gb/s Hard Drive	FH963AA
	HP 250-GB SATA 3.0-Gb/s Hard Drive	PY278AA
	HP 160-GB SATA 3.0-Gb/s Hard Drive	PY277AA
Removable Storage Devices	HP 22-in-1 Media Card Reader	AR941AA
Input Devices	**Keyboards**	
	HP USB JB Standard Keyboard	DT528A
	HP USB Smartcard Keyboard (Carbonite/Silver)	ED707AA
	HP USB PS2 Washable Keyboard	VF097AA
	HP USB Mini Keyboard	AS601AA
	HP 2.4GHz Wireless Keyboard & Mouse	NB896AA
	Mice	
	HP USB 2-Button Optical Scroll Mouse	DC172B
	HP USB 2-Button Laser Mouse	GW405AA
I/O Adapter	Belkin Serial to USB adapter	EM449AA
Memory	HP 1GB PC3-10600 (DDR3-1333) DIMM	AT023AA
	HP 2GB PC3-10600 (DDR3-1333) DIMM	AT024AA
	HP 4GB PC3-10600 (DDR3-1333) DIMM	FH978AA
Audio	HP Thin USB Powered Speakers	KK912AA
	HP USB 2.0MP Business Webcam	NX252AA
Graphics	ATI Radeon HD 4550 (512MB) DH PCIe x16 Graphics Card	SG764AA
	ATI Radeon HD 5450 (1GB) FH PCIe x16 card	TBD
	NVIDIA GeForce G210 HDMI (512MB) SH PCIe x16 Graphics Card	VN565AA
	NVIDIA GeForce GT230 (1.5GB) PCIe x16 Graphics Card	VH697AA
	HP DVI Cable kit	DL198A

After-Market Options (availability varies by configuration and by country)

Optical Drives	HP 16X/48X SATA DVD-ROM Drive BLK	AR629AA
	HP 16X SATA SuperMulti LightScribe DVD Drive BLK	AR630AA
	HP 16X SATA Blu-ray Writer BLK	AR482AA
Security	HP Business PC Security Lock Kit	PV606AA
	HP/Kensington MicroSaver Security Cable Lock	PC766A
	HP Chassis (dc) Security Kit	AR639AA

QuickSpecs

Technical Specifications

System Unit	Dimensions (HxWxD)	15.14 x 7.27 x 16.36 in 385 x 185 x 416 mm	
	Weight	16.7 lb (7.58 kg)	
	Packaging Dimensions (DxLxW)	19.63 x 24.13 x 10.56 in 498.6 x 613 x 268.2 mm	
	Shipping Weight	24.77 lb (111.24 kg)	
	Temperature	Operating	41° to 95° F (5° to 35° 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	35 G, half-sine
		Non-operating	30 G, half-sine
	Maximum Altitude (unpressurized)	Operating	10,000 ft (3048 m)
		Non-operating	30,000 ft (9144 m)

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.

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	58.695 W
Sleep (Energy Star low power mode)	2.2075 W
Off	1.3839 W

Heat Dissipation*	230 VAC
Normal Operation	200.7 BTU/hr
Sleep	7.54 BTU/hr
Off	5 BTU/hr

Technical Specifications

* 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 Off	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	3.7	27
Fixed Disk (random writes)	3.9	28

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 84.3% recyclable when properly disposed of at end of life.

Packaging Materials

- External:
  - Corrugated Carton - 2015 g
- Internal:
  - EPS(Expanded Polystyrene) - 171 g
  - Other- 43 g
- The EPS (Expanded Polystyrene) packaging material is made from 0% recycled content.
- The corrugated Carton packaging materials contains at least 0% recycled content.

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

Technical Specifications

- 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.
- 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

Technical Specifications