

Processor	
64-bit Computing:	Yes
Clock Speed:	2.2 GHz
Features:	Intel Turbo Boost Technology 2.0 , SpeedStep technology
Generation:	5
Manufacturer:	Intel
Max Turbo Speed:	2.7 GHz
Number of Cores:	Dual-Core
Processor Number:	I5-5200U
Type:	Core i5
Networking	
Compliant	IEEE 802.1p , IEEE 802.1Q , IEEE 802.1x , IEEE 802.3ab , IEEE
Standards:	802.3az , IEEE 802.3i , IEEE 802.3u , Wi-Fi CERTIFIED
	Bluetooth 4.0 , Ethernet , Fast Ethernet , Gigabit Ethernet , IEEE
Data Link Protocol:	802.11a , IEEE 802.11ac , IEEE 802.11b , IEEE 802.11g , IEEE
	802.11n
Remote	
Management	
Protocol:	SNMP 2
Wired NIC:	Realtek RTL8161GSH-CH
Wired Protocol:	Gigabit Ethernet
Wireless NIC:	Intel Dual Band Wireless-AC 3160
Wireless Protocol:	802.11ac , Bluetooth 4.0
Storage Hard Drive	
Capacity:	500 GB
OS Provided	
Edition:	Windows 7 Professional , Windows 8.1 Pro
Family:	Windows 7 , Windows 8.1
Preinstalled OS:	Windows 7
Type:	Microsoft Windows 7 Professional 64-bit Edition / Windows 8.1 Pro downgrade
Audio Input	
Type:	Stereo microphone
Audio Output	
Audio Codec:	Realtek ALC3227-CG
Compliant	
Standards:	DTS SOUND+ , High Definition Audio
Type:	Stereo speakers
Battery	
Capacity:	44 Wh
Cells:	4-cell
Run Time (Up To):	11 hours
Technology:	Lithium ion
Card Reader	
Supported Flash	
Memory:	SD Memory Card , SDHC Memory Card , SDXC Memory Card
Type:	Card reader
Display	
Diagonal Size	
(metric):	39.6 cm
Display Resolution	
Abbreviation:	HD
LCD Backlight	
Technology:	LED backlight
Projector Monitor	HD anti-glare

Features:	
Type:	LED
Widescreen	
Display:	Yes
Environmental Parameters	
Humidity Range	
Operating:	10 - 90% (non-condensing)
Max Operating	
Temperature:	35 °C
Min Operating	
Temperature:	5 °C
Header	
Brand:	HP
Compatibility:	PC
Country Kits:	United States
Localization:	English
Manufacturer:	Hewlett-Packard Laptops
Model:	450 G2
Packaged Quantity:	1
Product Line:	HP ProBook
Input Device	
Features:	Built-in numeric keyboard , Spill-resistant , Touchpad with gesture support
Type:	Keyboard , Touchpad
Miscellaneous	
Color Category:	Black
Compliant	A-Tick , ACPI , BSMI , CCC , CIT , CSA , FCC , GOST , ICES ,
Standards:	KC , RoHS , SABS , UL , VCCI , WEEE
	Automatic DriveLock , HP 3D DriveGuard , HP BIOS Protection ,
	HP Drive Encryption , HP DriveLock , HP File Sanitizer , HP
	SpareKey , Hybrid Boot , Intel My WiFi Technology , Master
Features:	Record Security , Measured Boot , Power On Authentication , Pre-Boot Security , SecureBoot , Security lock slot (cable lock sold separately)
Included Laptop	
Accessories:	Power adapter
Manufacturer	
Selling Program:	HP Smart Buy
Modem	
Type:	None
Power Device	
Frequency	
Required:	50/60 Hz
Nominal Voltage:	AC 120/230 V
Power Provided:	45 Watt
Voltage Provided:	19.5 V
Service	
Support Details Full	
Contract Period:	1 year
Support Details	
Service Included:	Parts and labor
Support Details	
Type:	Limited warranty
Service & Support Details	
Component:	Battery

Embedded Security:	Trusted Platform Module (TPM 1.2) Security Chip
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Hard Drive Capacity:	500 GB
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Notebook Type:	Notebook
Platform:	Windows
Video Output	
Graphics Processor	
Vendor:	Intel HD Graphics 5500
RAM	
Configuration	
Features:	1 x 4 GB
Empty Slots:	1
Form Factor:	SO DIMM 204-pin
Installed Size:	4 GB
Max Supported Size:	16 GB
Memory Speed:	1600 MHz
Slots Qty:	2
Technology:	DDR3L SDRAM

Dimensions & Weight	
Depth:	26.28 cm
Height:	2.55 cm
Weight:	2.06 kg
Width:	37.5 cm

Optical Storage	
Drive Type:	DVD SuperMulti
Form Factor:	Fixed
Load Type:	Tray
Type:	DVD±RW (±R DL) / DVD-RAM

Service & Support	
Type:	1 year warranty

Display (Projector)	
Diagonal Size:	15.6 in
Max Resolution:	1366 x 768

Hard Drive	
Interface:	Serial ATA-300
Spindle Speed:	5400 rpm
Type:	HDD
Cache Memory	
Installed Size:	3 MB
Type:	L3 cache

Environmental Standards	
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ENERGY STAR Qualified:	Yes
Interfaces	
HDMI Ports Qty:	1
USB 2.0 Ports Qty:	2
USB 3.0 Ports Qty:	2
Interface:	USB 3.0
Qty:	2
Interface:	USB 2.0
Interface:	HDMI
Interface:	Headphone/microphone combo jack
Interface:	LAN
Interface:	VGA
Notebook Camera	
Integrated Webcam:	Yes
Resolution:	1280 x 720