



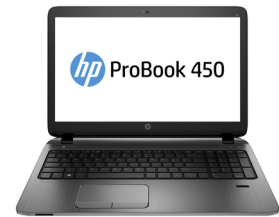
## HP ProBook 450 G2 Intel® Core™ i3 i3-5010U Laptop 15.6" 4 GB DDR3L-SDRAM 500 GB HDD FreeDOS Black, Gray

**Brand :** HP

**Product family:** ProBook

**Article code:** L8A64ES

**Product name :** 450 G2



Intel Core i3-5010U (3M Cache, 2.10 GHz), 4GB DDR3L-SDRAM, 500GB HDD, 15.6" (1366 x 768), Intel HD Graphics 5500, SuperMulti DVD, Wi-Fi, Bluetooth, LAN, FreeDOS

HP ProBook 450 G2. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i3, Processor model: i3-5010U, Processor frequency: 2.1 GHz. Display diagonal: 15.6", Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 5500. Operating system installed: FreeDOS. Product color: Black, Gray

Design		Keyboard	
Product type *	Laptop	Pointing device	Touchpad
Product color *	Black, Gray	Numeric keypad *	✓
Form factor *	Clamshell		
Country of origin	China		
Display		Software	
Display diagonal *	15.6"	Operating system installed *	FreeDOS
Display resolution *	1366 x 768 pixels		
Touchscreen *	✗		
LED backlight	✓		
Native aspect ratio	16:9		
Dual-screen	✗		
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i3	Intel® Smart Response Technology	✓
Processor generation	5th gen Intel® Core™ i3	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i3-5010U	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	✗
Processor threads	4	Intel® Small Business Advantage (Intel® SBA)	✓
Processor frequency *	2.1 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	5 GT/s	Intel® Built-in Visuals Technology	✓
Processor cache	3 MB	Intel HD Graphics	✓
Processor cache type	L3	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1168	Intel Clear Video Technology	✓
Processor lithography	14 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	32-bit, 64-bit	Intel® Insider™	✓
Processor series	Intel Core i3-5000 Mobile series	Intel® Quick Sync Video Technology	✓
Processor codename	Broadwell	Intel Flex Memory Access	✓
Bus type	DMI2	Intel® Smart Cache	✗
Stepping	F0	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	15 W	Intel Trusted Execution Technology	✗
Configurable TDP-down	10 W	Intel Enhanced Halt State	✓
Configurable TDP-down frequency	0.6 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Tjunction	105 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	12	Intel® Secure Key	✓
PCI Express slots version	2.0	Intel TSX-NI	✗
PCI Express configurations	2x4, 4x1	Intel Stable Image Platform Program (SIPP)	✗
Memory		Intel® OS Guard	✓
Internal memory *	4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory type	DDR3L-SDRAM	Intel 64	✓
Memory clock speed	1600 MHz	Execute Disable Bit	✓
Memory layout (slots x size)	1 x 4 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	500 GB	Processor package size	40 x 24x 1.3 mm
Storage media *	HDD	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total HDDs capacity	500 GB	Processor code	SR23Z
Number of HDDs installed	1	CPU configuration (max)	1
HDD capacity	500 GB	Embedded options available	✓
Optical drive type *	DVD Super Multi	Graphics & IMC lithography	14 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible memory cards	SD	Intel Identity Protection Technology version	1.00
Graphics		Intel Smart Response Technology version	1.00
Discrete graphics card model *	Not available	Intel Stable Image Platform Program (SIPP) version	0.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✗	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	0.00
On-board graphics card model *	Intel® HD Graphics 5500	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	300 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	900 MHz	Intel Fast Memory Access	✓
Maximum on-board graphics card memory	16 GB	Processor ARK ID	84697
On-board graphics card DirectX version	11.2	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.3	Battery	
On-board graphics card ID	0x1616	Number of battery cells	4
Graphics card Open GL support	✓	Battery capacity *	40 Wh
Camera		Power	
Front camera	✓	AC adapter power	45 W
Network		DC-in jack	✓
Wi-Fi	✓	Weight & dimensions	
Ethernet LAN	✓	Width	14.8" (375 mm)
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	10.4" (263 mm)
Bluetooth	✓	Height	0.906" (23 mm)
Bluetooth version	4.0	Weight *	4.54 lbs (2.06 kg)
Ports & interfaces		Other features	
USB 2.0 ports quantity *	4	Intel segment tagging	Enterprise, Professional
Ethernet LAN (RJ-45) ports	1		
HDMI ports quantity *	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		
Combo headphone/mic port	✗		

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