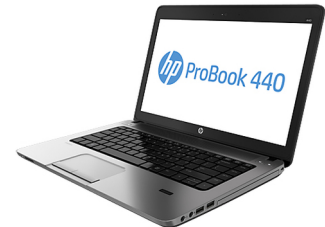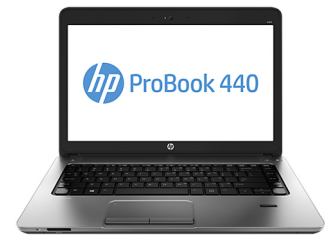**HP**

HP ProBook 440 G1 Intel® Core™ i5 i5-4200M Laptop 35.6 cm (14") 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Black, Silver

Brand : HP　　　　**Product family:** ProBook　　　　**Product code:** C7N87AV

Product name : 440 G1

Intel Core i5-4200M 2.5GHz, Intel HM87, 4GB 1600MHz DDR3 SDRAM, 500GB 5400 rpm SATA, Intel HD 4600, DVD SuperMulti DL, 14" LED 1366 x 768, Gigabit LAN, WLAN, Bluetooth, Windows 7 Professional 64-bit / Windows 8.1 Pro
HP ProBook 440 G1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-4200M, Processor frequency: 2.5 GHz. Display diagonal: 35.6 cm (14"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 7 Professional. Product colour: Black, Silver

Design

Product type *	Laptop
Product colour *	Black, Silver
Form factor *	Clamshell
Country of origin	China

Display

Display diagonal *	35.6 cm (14")
Display resolution *	1366 x 768 pixels
Touch screen *	✗
HD type	Not supported
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor *	i5-4200M
Processor number of cores	2
Processor threads	4
Processor boost frequency	3.1 GHz
Processor frequency *	2.5 GHz
System bus data transfer rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	PGA946
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-4200 Mobile series
Processor codename	Haswell
Bus type	DMI
FSB Parity	✗
Stepping	C0
Thermal Design Power (TDP)	37 W

Ports & interfaces

ExpressCard slot	✗
CardBus PCMCIA slot type	✗
SmartCard slot	✗

Performance

Motherboard chipset	Intel® HM87

Keyboard

Pointing device	Touchpad
Numeric keypad *	✗
Spill-resistant keyboard	✔
Full-size keyboard	✔

Software

Operating system architecture	64-bit
Recovery operating system	Windows 8.1 Pro
Operating system installed *	Windows 7 Professional

Processor special features

Intel Wireless Display (WiDi) Technology	✔
Intel My WiFi Technology	✗
Intel Anti-Theft Technology	✔
Intel Identity Protection Technology	✔
Intel Hyper-Threading Technology	✔
Intel Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel Clear Video HD Technology	✔
Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✗

Processor

Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
ECC supported by processor	✘

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1600 MHz
Memory layout (slots x size)	1 x 4 GB
Memory slots	2x SO-DIMM

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Number of hard drives installed	1
Hard drive capacity	500 GB
Hard drive interface	SATA
Hard drive rotational speed	7200 RPM
Optical drive type *	DVD Super Multi DL
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4600
On-board graphics card base frequency	400 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	1.74 GB
On-board graphics card DirectX version	11.1
On-board graphics card ID	0x416

Audio

Audio system	DTS Sound+
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, 802.11b, 802.11g
Ethernet LAN connection	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports quantity	1
HDMI ports quantity *	1
DVI port	✘
VGA (D-Sub) ports quantity	1

Processor special features

Intel® Smart Cache	✔
Intel AES New Instructions	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel Clear Video Technology for MID	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 x 4.7 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR1HA
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✘
Intel FDI Technology	✘
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✘
Processor ARK ID	76348
Conflict-Free processor	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	47 Wh
Battery life (max)	9.25 h

Energy Management

AC adapter power	65 W
DC-in jack	✔

Security

Cable lock slot	✔

Sustainability

Sustainability certificates	ENERGY STAR

Weight & Dimensions

Width	339.2 mm
Depth	238.5 mm
Height	22.4 mm
Weight *	1.97 kg

Packaging Content

AC adapter bundled *	✔
Manual	✔
Warranty card	✔

Ports & interfaces		Other features	
Headphone outputs	1	LightScribe	✘
S/PDIF out port	✘	Intel segment tagging	Enterprise, Professional
Microphone in	✔		
Docking connector	✘		

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