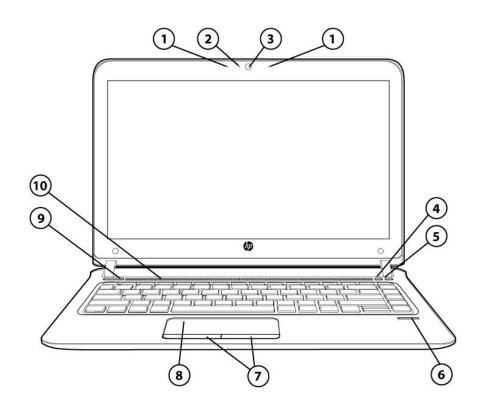
Overview

HP ProBook 430 G3 Notebook PC



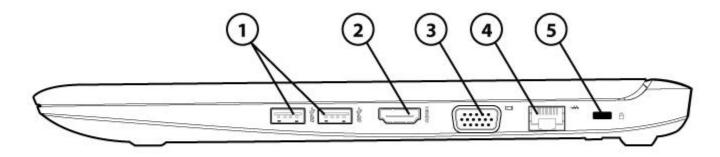
- 1. Microphones (2)
- 2. Webcam light
- 3. Webcam
- 4. Wireless on/off button
- 5. Speaker mute button

Front

- 6. Fingerprint reader
- 7. Touchpad pick buttons
- 8. Touchpad
- 9. Power button
- 10. Speaker array



Overview



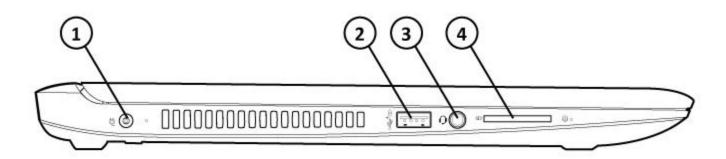
- 1. USB 3.0 ports (2)
- 2. HDMI port
- 3. External VGA monitor port

Power connector

USB 2.0 port (power port)

Right

- 4. Ethernet port (RJ-45)
- 5. Security lock slot



Left

- 3. Headphone/Microphone combo jack
- 4. SD Card reader

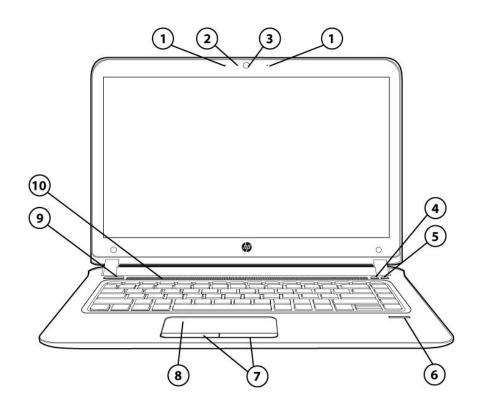


1.

2.

Overview

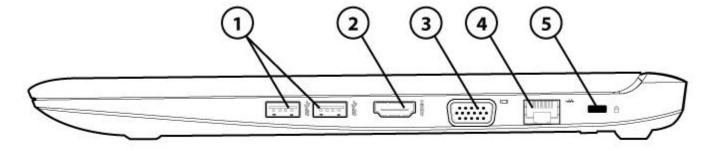
HP ProBook 440 G3 Notebook PC



- 1. Microphones (2)
- 2. Webcam light
- 3. Webcam
- 4. Wireless on/off button
- 5. Speaker mute button

Front

- 6. Fingerprint reader
- 7. Touchpad pick buttons
- 8. Touchpad
- 9. Power button
- 10. Speaker array





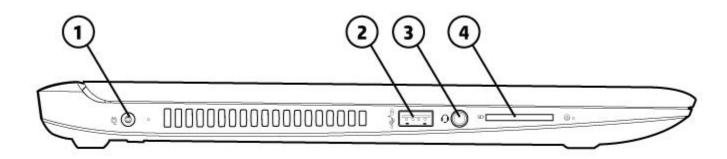
HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Overview

- 1. USB 3.0 ports (2)
- 2. HDMI port
- 3. External VGA monitor port

Right

- 4. Ethernet port (RJ-45)
- 5. Security lock slot



Left

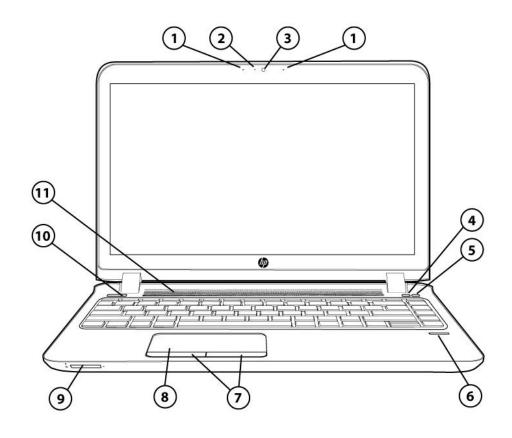
- 1. Power connector
- 2. USB 2.0 port (power port)

- 3. Headphone/Microphone combo jack
- 4. SD Card reader



Overview

HP ProBook 450 G3 Notebook PC



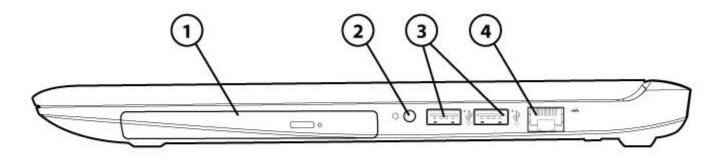
- 1. Microphones (2)
- 2. Webcam light
- 3. Webcam
- 4. Wireless on/off button
- 5. Speaker mute button
- 6. Fingerprint reader

Front

- 7. Touchpad pick buttons
- 8. Touchpad
- 9. SD Card reader
- 10. Power button
- 11. Speaker array



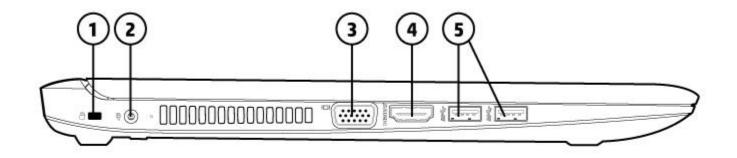
Overview



Right

- 1. Optical drive
- 2. Headphone/Microphone combo jack
- 3. USB 2.0 ports (2)

4. Ethernet port (RJ-45)



Power connector

- 2. USB 2.0 port (power port)
- 3. External VGA monitor port

Left

- 4. HDMI port
- 5. USB 3.0 ports (2)



1.

HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Overview

AT A GLANCE

- Windows 10, Windows 8.1, Windows 7 editions, Ubuntu Linux, or FreeDOS 2.0
- Choice of Intel® Core™ or Intel® Pentium® processors
- fFull size HP Premium Keyboard, spill-resistant keyboard with a thin layer of Mylar film to prevent minor spills; full separate numeric keypad
- Separate launch buttons provide easy access to wireless on/off and speaker mute.
- Function keys provide control of features including: standby mode, display brightness, external display, microphone mute, volume down, volume up, and backlight toggle for backlit keyboard (select models only).
- Larger Touchpad with gestures support, on/off button with LED indicator
- Enhanced security features with preinstalled software and hardware options
- Optional HD webcam with dual-microphone array for video conferencing
- HDMI port for connecting to high-resolution displays
- HD audio with DTS Studio Sound™
- Choice of 13.3" diagonal, 14" diagonal, or 15.6" diagonal flat screens or 14" diagonal, 15.6" diagonal Touch screens
- Flexible wireless connectivity options
- Battery life up to xx hours and xx minutes
- Choice of HP 4-cell, 44 WHr Li-ion battery or optional HP 6-cell, Long Life 55 WHr Li-ion battery

NOTE: See important legal disclosures for all listed specs in their respective features sections.



PRODUCT NAMES

HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 10 Pro 64¹

Windows 10 Home 64¹ Windows 8.1 Pro 64¹ Windows 8.1 64¹

Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro)²

Windows 7 Professional 641

FreeDOS 2.0

Web only support Windows 10 Enterprise 64¹

Windows 8.1 Enterprise 64¹ Windows 7 Professional 32¹ Windows 7 Enterprise 64¹ Windows 7 Enterprise 32¹

- Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.
- 2. This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSORS

HP ProBook 430 G3

Intel® Core™ i7-6500U with Intel® HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores)^{1,2}

Intel® Core™ i5-6300U with Intel® HD Graphics 520 (2.4 GHz, up to 3 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores) 1,2

Intel® Core™ i5-6200U with Intel® HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores) 1.2

Intel® Core™ i3-6100U with Intel® HD Graphics 520 (2.3 GHz, 3 MB cache, 2 cores) 1,2

Intel® Celeron® 3855U with Intel® HD Graphics 510 (1.6 GHz, 2 MB cache, 2 cores) 1,2

Intel® Pentium® 4405U with Intel® HD Graphics 510 (2.1 GHz, 2 MB cache, 2 cores) 1,2

HP ProBook 440 G3

Intel® Core™ i7-6500U with Intel® HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) 1,2

Intel® Core™ i5-6300U with Intel® HD Graphics 520 (2.4 GHz, up to 3 GHz with Intel® Turbo Boost Technology,



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

3 MB cache, 2 cores) 1,2

Intel® Core™ i5-6200U with Intel® HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel® Turbo Boost Technology, 3 MB cache. 2 cores) ^{1,2}

Intel® Core™ i3-6100U with Intel® HD Graphics 520 (2.3 GHz, 3 MB cache, 2 cores) 1,2

Intel® Celeron® 3855U with Intel® HD Graphics 510 (1.6 GHz, 2 MB cache, 2 cores) 1,2

Intel® Pentium® 4405U with Intel® HD Graphics 510 (2.1 GHz, 2 MB cache, 2 cores) 1,2

HP ProBook 450 G3

Intel® Core™ i7-6500U with Intel® HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) ^{1,2}

Intel® Core™ i5-6200U with Intel® HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores) 1,2

Intel® Core™ i3-6100U with Intel® HD Graphics 520 (2.3 GHz, 3 MB cache, 2 cores) 1,2

Intel® Celeron® 3855U with Intel® HD Graphics 510 (1.6 GHz, 2 MB cache, 2 cores) 1,2

Intel® Pentium® 4405U with Intel® HD Graphics 510 (2.1 GHz, 2 MB cache, 2 cores) 1,2

- 1. Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- 2. HD content required to view HD images.

NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET

Integrated with processor

GRAPHICS

Integrated

Intel® HD Graphics 510 or Intel® HD Graphics 5201

1. HD content required to view HD images.

NOTE: View processor section for details.

DISPLAYS

HP ProBook 430 G3

Internal

Non-Touch

13.3" diagonal HD¹ anti-glare LED-backlit (1366 x 768)

Touch

13.3" diagonal HD¹ anti-glare LED-backlit touch screen (1366 x 768)

NOTE: Only available with Windows 10 or Windows 8.1.

External



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Up to 32-bit per pixel color depth

VGA

Port supports resolutions up to 2048 x 1536 external resolution @60 Hz

HDMI

Supports direct connection to high-definition displays with up to 4096 x 2160 @24 Hz resolution and 7-channel audio with one convenient cable (Cable not included.)

HP ProBook 440 G3

Internal

Non-Touch

14" diagonal HD¹ anti-glare LED-backlit (1366 x 768)

14" diagonal full HD¹ anti-glare slim LED-backlit (1920 x 1080)

Touch

14" diagonal HD1 anti-glare LED-backlit touch screen (1366 x 768)

NOTE: Only available with Windows 10 or Windows 8.1.

External

Up to 32-bit per pixel color depth

VGA

Port supports resolutions up to 2048 x 1536 external resolution @60 Hz

HDMI

Supports direct connection to high-definition displays with up to 4096 x 2160 @24 Hz resolution and 7-channel audio with one convenient cable (Cable not included.)

HP ProBook 450 G3

Internal

Non-Touch

15.6" diagonal HD1 anti-glare flat LED-backlit (1366 x 768)

15.6" diagonal full HD1 anti-glare slim LED-backlit (1920 x 1080)

Touch

15.6" diagonal HD1 anti-glare flat LED-backlit touch screen (1366 x 768)

External

Up to 32-bit per pixel color depth

VGA

Port supports resolutions up to 2048 x 1536 external resolution @ 60 Hz

HDMI

Supports direct connection to high-definition displays with up to 4096 x 2160 @24 Hz resolution and 7-channel audio with one convenient cable (not included)

1. HD content required to view HD images.

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage Bay

HP 3D DriveGuard (Windows only)

HP ProBook 430 and 440 G3

Hard Drives

Supports SATA, 7mm, 2.5" Hard Drives

500 GB - 5400 RPM Solid State Hard Drive (8 GB Cache)

500 GB - 7200 RPM Hard Drive



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

1 TB - 5400 RPM Hard Drive

HP ProBook 450 G3 Hard Drives

Supports SATA, 7mm/9.5mm, 2.5" Hard Drives 500 GB - 5400 RPM Hard Drive 500 GB - 5400 RPM Solid State Hard Drive (8 GB Cache) 500 GB - 7200 RPM Hard Drive 1 TB - 5400 RPM Hard Drive 2 TB - 5400 RPM Hard Drive

HP 3D DriveGuard (Windows only)

The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive

NOTE: For Solid State Drives or Hard Drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) is reserved for system recovery software.

OPTICAL DRIVES

HP ProBook 430 and 440 G3 External

Support Optional¹ External USB Drive CD/DVD R/RW

HP ProBook 450 G3 Fixed Optional¹ Optical Drive

9.5mm SATA: DVD+/-RW SuperMulti DL Drive^{1,2} Blu-ray ROM DVD+/-RW SuperMulti DL Drive^{1,2} Weight saver

- 1. Sold separately as an optional feature.
- 2. For Blu-ray drives, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require an HDMI digital connection and your display may require HDCP support. HD-DVD disks cannot be played on this drive. Note that DVD-RAM cannot read or write to 2.6 GB Single Sided/5.2 GB Double Sided Version 1.0 media. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs; discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.

MEMORY

Two SODIMM slots Both slots are customer accessible / upgradeable DDR3L PC3-12800 (Transfer rates up to 1600 MT/s) Supports Dual Channel Memory

Standard

4096 MB Total System Memory (4096 MB x 1) 8192 MB Total System Memory (4096 MB x 2) (Dual Channel) 8192 MB Total System Memory (8192 MB x 1) 16384 MB Total System Memory (8192 MB x 2) (Dual Channel)



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Maximum

Upgradeable to 16384 MB in slots 1 and 2

Dual-channel

Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. With Windows Starter 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

NETWORKING/COMMUNICATIONS

HP ProBook 430 G3 Wireless LAN (WLAN) 1,2

Realtek 802.11b/g/n (1x1)

Realtek 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 3165 802.11a/b/g/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo

HP ProBook 440 G3

Wireless LAN (WLAN) 1,2

Realtek 802.11b/g/n (1x1)

Realtek 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 3160 802.11a/b/g/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 3165 802.11a/b/g/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo

HP ProBook 450 G3

Wireless LAN (WLAN) 1

Realtek 802.11b/g/n (1x1)

Realtek 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo

Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 3165 802.11a/b/g/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo

Intel® Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo

1. Wireless access point and Internet service required and sold separately.

Availability of public wireless access points limited.

2. Sold separately or as an optional feature.

Communications

Realtek Ethernet (10/100/1000)

NOTE: The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

AUDIO/MULTIMEDIA

Audio

HD audio with DTS Studio Sound™
Two stereo speakers
Integrated microphone (dual-microphone array when equipped with optional webcam)
Headphone/microphone combo jack

Webcam

Optional¹ 720p HD² webcam³

- 1. Sold separately as an optional feature.
- 2. HD content required to view HD images.
- 3. Internet access required.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

HP Premium Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys. US and International key layouts are available.

Includes a separate numeric keypad (HP ProBook 450 only.)

Backlit keyboard available as an option.

Buttons and Function Keys

Separate launch buttons provide easy access to wireless on/off and speaker mute. Function keys provide control of features including: standby mode, display brightness, external display, microphone mute, volume down, volume up, and backlight toggle for backlit keyboard (select models only).

Function Keys

ESC: system information

F1 - Sleep

F2 - Blank

F3 - Backlight Toggle (for backlit keyboard) or Blank

F4 - Display Switching

F5 - Brightness Down

F6 - Brightness Up

F7 - Blank

F8 - Volume Down

F9 - Volume Up

F10 - Mic Mute

F11 - Blank

F12 - NumLock (430/440); Blank (450)

Hidden Fuctions

o Fn+R --> Break o Fn+S --> Sys Rq



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

o Fn+C --> Scroll Lock

Pointing Devices

Touchpad with gestures support, on/off button with LED indicator, two-way scroll, two pick buttons

Touchpad

On/off button (on board)
Taps enabled as default

Gestures

Enabled by default

2 Finger Scrolling 2 Finger Zoom (Pinch) OSD (enable/disable) Win8 2 Finger tap = right click Win8 Edge Swipes

Disabled by default

3 Finger Flick 2 Finger Rotate Momentum Motion 1 Finger Vertical Scroll

SOFTWARE AND SECURITY

Preinstalled Software BIOS

HP BIOSphere¹

HP DriveLock | HP Automatic DriveLock

HP BIOS Protection²

Master Boot Record Security

Power On Authentication

Pre-Boot Security

Secure Erase³

Hybrid Boot (Windows 8.1 & later)

Measure Boot (Windows 8.1 & later)

Secure Boot (Windows 8.1 & later)

Absolute Persistence Module⁴

Multi Media

Cyberlink Power DVD, BD
Cyberlink Power2Go (Secure Burn)
Cyberlink YouCam BE (Windows 7 only)

Communication

HP GPS and Location (Windows 7 only)⁵
HP Connection Manager with support for HP Mobile Connect (Windows 7 only)⁶
HP Mobile Connect (Windows 8.1 & later)⁶



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Intel® Wireless Display (WiDi) Software for Windows⁷ Native Miracast Support⁸

HP Value Add Software

HP 3D DriveGuard

HP ePrint Driver9

HP Hotkey

HP Recovery Manager

HP Recovery Disc Creator

HP Unified Recovery Manager (Windows 8.1 and 10 only)

HP Registration App (Windows 8.1 & later)

HP Support Assistant

HP Noise Reduction Software

3rd Party

Foxit PhantomPDF Express for HP HP Caller Dashboard Built by Thug Labs

Microsoft Products

Buy Office Bing Search Skype¹⁰

Manageability

HP Driver Packs¹¹
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)¹¹
HP BIOS Config Utility (BCU)¹¹
HP Client Catalog¹¹
HP CIK for Microsoft SCCM¹¹
LANDESK Management¹²

For more information on HP Client Management Solutions refer to: http://www.hp.com/qo/clientmanagement.

Client Security Software

Absolute Persistence Module HP Drive Encryption¹³ HP Security Manager Microsoft Security Essentials ¹⁴ Microsoft Defender



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Security

Pre-boot Authentication Security lock slot (Lock sold separately.) Optional¹⁵ Fingerprint Reader TPM

NOTE: The Absolute Persistence agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S.

For more information on HP Client Security Software Suite, refer to http://www.hp.com/go/clientsecurity.

- 1. Available only on business PCs with HP BIOS.
- 2. May require a manual recovery step if all copies of BIOS are compromised or deleted.
- 3. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
- 4. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 5. GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications.
- 6. HP Mobile Connect is only available on preconfigured devices with WWAN. For geographic availability refer to www.hp.com/go/mobileconnect
- 7. Integrated Intel® Wi-Di Display is available on select configurations only and requires a separate projector, TV or monitor with an integrated or external Wi-Di receiver. For more information on Intel® Wi-Di Display visit www.intel.com/go/wirelessdisplay
- 8. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast
- 9. Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- 10. Skype is not offered in China.
- 11. Not preinstalled, however available on manageability website.
- 12. Subscription required.
- 13. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access.
- 14. Opt in and internet connection required for updates.
- 15. Sold separately as an optional feature.



POWER

Power Supply HP ProBook 430 /440 /450 G3

45 W Smart AC adapter 45 W Smart AC adapter 2-prong (Japan only) 65 W EM Smart AC adapter (China and India only)

Battery

HP 4-cell, 44 WHr Li-ion Optional¹ HP 6-cell, Long Life 55 WHr Li-ion (HP Fast Charge is available on 6-cell battery only.)

1. Sold separately as an optional feature.

Battery Time

	Configurations with integrated graphics (Windows 8.1)	Configurations with discrete graphics (Windows 8.1)
HP ProBook 430 G3		
HP 4-cell (44 WHr) battery	Up to 9 hours ¹	NA

HP 6-cell (55 WHr) long life NA Up to 10 hours¹ battery

HP ProBook 440 G3

HP 4-cell (44 WHr) battery Up to 9 hours1 Up to 8 hours 45 min1 HP 6-cell (55 WHr) long life battery Up to 10 hours¹ Up to 9 hours 45 min1

HP ProBook 450 G3

HP 4-cell (44 WHr) battery Up to 8 hours 30 min1 Up to 8hours 15 min1 HP 6-cell (55 WHr) long life battery Up to 9 hours 15 min¹ Up to 9 hours1

1. Windows 8.1 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

System Standby Time

4-cell (44 WHr) battery Up to 15 days 6-cell (55 WHr) long life battery Up to 16 days

NOTE: Standby time will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

Power Conservation



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Supports enhanced Intel SpeedStep technology (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)

AMD PowerPlay technology (discrete models)

Hibernation

Standby

ACPI compliance

WEIGHTS & DIMENSIONS

HP ProBook 430 G3

Weight

Starting at 3.31 lbs (1.5 kg)

Dimensions

Non-Touch

12.83 x 9.19 x 0.78 to 0.83 in (front to rear) 32.6 x 23.35 x 1.99 to 2.09 cm (front to rear)

Touch

12.83 x 9.2 x 0.84 to 0.88 in (front to rear) 32.6 x 23.37 x 2.14 to 2.24 cm (front to rear)

HP ProBook 440 G3

Weight

Starting at 3.69 lbs (1.68 kg)

Dimensions

Non-Touch

13.35 x 9.61 x 0.78 to 0.83 in (front to rear) 33.92 x 24.4 x 1.99 to 2.09 cm (front to rear)

Touch

13.35 x 9.61 x 0.85 to 0.89 in (front to rear) 33.92 x 24.42 x 2.15 to 2.25 cm (front to rear)

HP ProBook 450 G3

Weight

Starting at 4.56 lbs (2.07 kg)

Dimensions

Non-Touch

14.88 x 10.41 x 0.94 to 0.98 in

37.8 x 26.43 x 2.38 to 2.48 cm (front to rear)

Touch

14.88 x 10.42 x 1 to 1.04 in (front to rear)

37.8 x 26.46 x 2.55 to 2.65 cm (front to rear)

HP ProBook 470 G3

Weight

Starting at 5.75 lbs (2.61 kg)

Dimensions

Non-Touch

16.41 x 11.44 x 0.98 to 1.02 in (front to rear)

41.68 x 29.05 x 2.5 to 2.6 cm (front to rear)



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.

PORTS/SLOTS

Ports 430/440

2 USB 3.0

1 USB 2.0 (power port)

1 HDMI

1 headphone/microphone combo

1 AC power

1 RJ-45

1 VGA

450

2 USB 3.0

2 USB 2.0

1 HDMI

1 headphone/microphone combo

1 AC power

1 RJ-45

1 VGA

NOTE: All cables are not included and sold separately.

Digital Media Slots

Multi Media Reader Slot Supports SD, SDHC, SDXC

SERVICE AND SUPPORT

HP Services offers 3 year, 1 year and 90 day limited warranty options depending on country. 1 year limited warranty on primary battery. On-site service and optional extended service contracts are also available. Optional HP Services are extended service contracts which go beyond your standard limited warranties. For more details visit: http://www.hp.com/go/lookuptool.

- 1. Sold separately or as an optional feature.
- 2. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage Average Operating Power ProBook 440	19 V Win 7		Win8 Max		
	Integrated graphics		6.78W	6.78W	38.88W	
	Discrete graphics		4.49W	4.49W	31.87W	
	ProBook 450					
	Integrated graphics		8.89W	8.89W	39.33W	
	Discrete graphics		6.79W	6.79W	38.42W	
Temperature	Operating		32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)			
	Non-operating		-4° to 140° F (-20° to 60° C)			
Relative Humidity	Operating		10% to 90%, non-condensing 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature			
	Non-operating					
Shock	Operating		40 G, 2 ms, ha			
Silotik	Non-operating		200 G, 2 ms, h			
Random Vibration	Operating		0.75 grms	idii Siric		
	Non-operating		1.50 grms			
Altitude (unpressurized)	Operating		-50 to 10,000 ft (-15.24 to 3,048 m)			
	Non-operating			ft (-15.24 to 12,192		
Planned Industry Standard	UL		Yes			
Certifications	CSA		Yes			
	FCC Compliance		Yes			
	ENERGY STAR 6.0°		Select models	5 *		
	EPEAT		Registered Gold in United States**			
	ICES		Yes			
	Australia /		Yes			
	NZ A-Tick Compliance					
	CCC		Yes			
	Japan VCCI Compliance		Yes			
	KC		Yes			
	BSMI		Yes			
	CE Marking Compliance		Yes			
	BNCI or BELUS		Yes			
	CIT		Yes			
GOST			Yes			
Saudi Arabian Compliance (ICCP)		P)	Yes			
	SABS		Yes			
	UKRSERTCOMPUTER		Yes	-N-DSW STARR		

^{*} Configurations of the HP ProBook 430 G3, HP ProBook 440 G3 and HP ProBook 450 G3 that are ENERGY STAR® qualified are identified as HP ProBook 430 G3 ENERGY STAR, HP ProBook 440 G3 ENERGY STAR and HP ProBook 450 G3 ENERGY STAR on HP websites and on www.energystar.gov.

DISPLAYS

13.3" diagonal HD1 anti- Outline Dimensions glare LED-backlit (1366 x 768)

 $(W \times H \times D)$

314.6 x 189.2 mm max. (w/ bracket & PCB)

D(Flat): 3.6mm max. D(Slim): 3.0mm max.



^{**} EPEAT® registration varies by country. See www.epeat.net for registration status by country. EPEAT status listed above applies to U.S. For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

Technical Specifications

Active Area 293.42 x 164.97 mm Weight Flat: 290g max.

Slim: 260 max.

Diagonal Size 13.3" **Surface Treatment** Anti-glare **Contrast Ratio** 300:1 (typ) **Refresh Rate** 60Hz **Brightness** 220 nit typ **Pixel Resolution** 1366 x 768 (HD)

Interface eDP 1.2 (1 lane)

LCD Mode SVA PPI 118

Viewing Angle SVA 45/45/25/35

14" diagonal FHD anti- Outline Dimensions glare flat LED backlit (1920 x 1080)

320.9x205.6x3.0mm max (panel + PCBA) $(W \times H \times D)$

Active Area 309.14x173.89

Weight 290g max. (To be updated w/ real measure data)

Diagonal Size 14.0" **Surface Treatment** Anti-glare **Contrast Ratio** 300:1 (typ) - AG

Refresh Rate 60Hz **Brightness** 220 nit typ

Pixel Resolution 1920 x 1080 (FHD)

Interface eDP 1.2 (2 lane)

LCD Mode **SVA** PPI 157

Viewing Angle SVA 45/45/25/35

14" diagonal LED HD (1366 x 768) anti-glare

Dimensions (W x H) 12.63 x 7.39 in (32.09 x 18.76 cm) Weight 320g max.

Diagonal Size 14.0 in (35.6cm) **Surface Treatment** Anti-glare 400:1 (typical) **Contrast Ratio**

Refresh Rate 60 Hz

Brightness 220 nit (typical)

Pixel Resolution Pitch 0.227 mm

> Format 1366 x 768 Configuration **RGB Stripe**



Backlight LED **PPI** 112 ppi

Viewing Angle ±30° Horizontal, ±10° Vertical (minimum)

30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)

15.6" diagonal HD SVA anti-glare flat LED backlit (1366 x 768)

Outline Dimensions

 $(W \times H \times D)$

360.0 x 224.3 x 3.8mm max.

Active Area 344.2 x 193.5

Weight 420 max.

Diagonal Size 15.6"

Surface Treatment Anti-glare

Contrast Ratio 300:1 (typ) - AG

Refresh Rate60HzBrightness220 nit typPixel Resolution1366 x 768 (HD)InterfaceeDP 1.2 (1 lane)

LCD Mode SVA PPI 101

Viewing Angle SVA 40/40/15/30

15.6" diagonal FHD anti-glare flat LED backlit (1920 x 1080)

Outline Dimensions

 $(W \times H \times D)$

360.0 x 224.3 x 3.2mm max.

Active Area344.16 x 193.59Weight370g max.Diagonal Size15.6"Surface TreatmentAnti-glareContrast Ratio300:1 (typ) - AG

Refresh Rate 60Hz **Brightness** 220 nit typ

Pixel Resolution 1920 x 1080 (FHD) Interface eDP 1.2 (2 lane)

LCD Mode SVA PPI 142

Viewing Angle SVA 45/45/25/35



STORAGE AND DRIVES

500 GB* 5400 rpm SMART Drive Weight SATA II Hybrid HDD/SSHD Capacity

Drive Weight 0.209 lb (95 g)

Capacity 500 GB

 Height
 0.276 in (7 mm)

 Width
 2.76 in (70.1 mm)

Interface ATA-8, SATA 2.6, 6.0 Gb/s, NCQ

Transfer Rate Synchronous (maximum) 600 MB/s (Drive Capability)

Seek TimeSingle Track2 ms(typical reads, including
settling)Average12 msMaximumNIL ms

Rotational Speed 5400 rpm **Logical Blocks** 976,773,168

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

500 GB* 7200 rpm SATA Hard Drive

Drive Weight 0.25 lbs (115g)

Capacity 500 GB

 Height
 0.276 in (7 mm)

 Width
 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous (maximum) 300 MB/s (Drive Capability)

Seek TimeSingle Track1.5 ms(typical reads, including
settling)Average11 msMaximum22 ms

Rotational Speed 7200 rpm **Logical Blocks** 976,773,168

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

1 TB* 5400 rpm Drive Weight
SATA Hard Drive Capacity

Drive Weight117gCapacity1TBHeight9.5mmWidth70.1mmInterfaceATA-8, SATA 3.0

Transfer Rate Synchronous 600MB/s (maximum)

Seek TimeSingle Track2ms(typical reads, including settling)Average12msMaximum22ms



Rotational Speed 5400rpm Logical Blocks 1,953,525,168

Operating Temperature $0-60^{\circ}$ C

Features ATA Security, S.M.A.R.T., NCQ, Ultra DMA

2 TB* - 5400 RPM Hard Drive Drive Weight130gCapacity2TBHeight9.5mmWidth70.1mm

Interface ATA-8, SATA 3.0

Transfer RateSynchronous (maximum)600MB/sSeek TimeSingle Track2ms(typical reads, including settling)Average12msMaximum22ms

Rotational Speed 5400rpm **Logical Blocks** 3,907,029,168

Operating Temperature $0-60^{\circ}$ C

Features ATA Security, S.M.A.R.T., NCQ, Ultra DMA

0.022 lb (10 q)

SOLID STATE DRIVES

SSD 128GB 2280 Drive Weight M2 SATA-3

Capacity 128 GB

 Height
 0.14 in (3.7 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Performance Maximum Sequential Read Maximum Sequential Write

Up to 520 MB/s Up to 140 MB/s

Logical Blocks 250069680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA Security

SSD 256GB 2280 M2 SATA-3
 Drive Weight
 0.022 lb (10 g)

 Capacity
 256 GB

 Height
 0.14 in (3.58 mm)

 Width
 0.87 in (22 mm)

 Interface
 ATA-8, SATA 3.0

Maximum Sequential Read Maximum Sequential Write Performance

Up to 520 MB/s Up to 270 MB/s

Logical Blocks 250069680



Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features DIPM; TRIM; DEVSLP

Security Features ATA Security

OPTICAL DRIVES

DVD+/-RW SuperMulti DL Access Times Random <140ms CD (typical)

Drive

Weight 170g max.

Max Data Transfer Rate 24X CD-ROM

8X DVD 24X CD-R 24X CD-RW 8X DVD+R 8X DVD+RW 8X DVD-R 6X DVD-RW

6X - DVD+R Dual Layer 6X - DVD-R Dual Layer

5X DVD-RAM

Transfer Mode UDMA Mode 5 Interface Gen 1 SATA

Supported Media (read) CD-DA, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge

(Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18),

< 160 ms DVD (typical)

DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM, DVD+R DL,

DVD-R DL

Max Media Capacity

(read)

8.5 GB

Max Media Capacity

(write)

8.5 GB

Transport Tray Loading

Blu-ray ROM DVD+/-RW SuperMulti DL Drive* Access Times Random <190 ms CD-ROM (typical)

< 180ms DVD-ROM (typical) <230 ms BD-ROM (typical)

Weight 170g max.

Max Data Transfer Rate 24X CD-ROM

8X DVD-ROM 24X CD-R 16X CD-RW



8X DVD+R 8X DVD+RW 8X DVD-R **6X DVD-RW**

4X - DVD+R Dual Layer 4X - DVD-R Dual Layer

5X DVD-RAM **6X BD-ROM UDMA Mode 5**

Transfer Mode Interface Gen 1 SATA

Supported Media (read) CD-DA, , CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge

(Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-

R, DVD-RW, DVD+R, DVD+RW. DVD-RAM, BD-ROM, BD-R, BD-RE

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-R, DVD-R DL, DVD-RW,

DVD-RAM

Max Media Capacity

(read)

50.0 GB

Max Media Capacity

(write)

8.5GB

Transport Tray Loading

SECURITY

HP Synaptics VFM 495

Fingerprint Reader (optional) Mobile Voltage Operation 3.0V-3.6V Single Supply $32^{\circ} - 158^{\circ}F (0^{\circ} - 70^{\circ}C)$ **Operating Temperature**

Current Consumption @

Less than 70 mA peak imaging and scrolling Less than 25 mA hardware finger detection 3.3V

Advanced Power Management

High-Rate Image Capture Up to 240 image frames /sec **ESD Resistance** IEC 61000-4-2 Level 4 (±15KV) **Detection Matrix** 200 pixel wide fingerpring image 16.5 mm x 3 mm sensor area

508 dpi resolution, 256 levels of grayscale

NETWORKING/COMMUNICATIONS

WLAN

Intel® Dual Band Wireless-AC 3160 802.11a/b/q/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo - TBD Intel® Dual Band Wireless-AC 3165 802.11a/b/q/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo - TBD Intel® Dual Band Wireless-AC 8260 802.11a/b/q/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo – TBD

Realtek 802.11 b/g/n (1x1)



Wireless LAN Standards IEEE 802.11b

IEEE 802.11g

IEEE 802.11n

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/n

2.402 – 2.482 GHz

Note:

The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: MCS 0 ~ MCS 07, (20MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM,

Security¹

- IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
- AES-CCMP: 128 bit in hardware
- 802.1x authentication
- WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
- WPA2 certification
- IEEE 802.11i
- Cisco Certified Extensions, all versions through CCX4 and CCX Lite
- WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +16dBm minimum

• 802.11g: +14dBm minimum

• 802.11a: +14dBm minimum

• 802.11n HT20(2.4GHz): +13dBm minimum

• 802.11n HT40(2.4GHz): +13dBm minimum

• 802.11n HT20(5GHz): +12dBm minimum

• 802.11n HT40(5GHz): +12dBm minimum

Power Consumption Transmit: 2.0 W (max)



Receive: 1.6 W (max)

Idle mode (PSP): 180 mW (WLAN Associated)

Idle mode: 60 mW (WLAN unassociated)

Radio disabled: 30 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b, 1Mbps: -94dBm maximum

802.11b, 11Mbps: -86dBm maximum

802.11g, 6Mbps: -88dBm maximum

802.11g, 54Mbps: -74dBm maximum

802.11a, 6Mbps: -86dBm maximum

802.11a, 54Mbps: -72dBm maximum

802.11n, MCS07: -69dBm maximum

802.11n, MCS15: -66dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded 2.4 GHz antennas are provided to the card to support

WLAN and Bluetooth communications

(Support Dual antenna or Single antenna, depend on platform

requirement)

Form Factor PCI-Express M.2 MiniCard

Dimensions Type 2230 : 2.3 x 22.0 x 30.0 mm

0r

Type 1630: 2.3 x 16.0 x 30.0 mm

Weight Type 2230: 2.8g

0r

Type 1630: 2g

Operating Voltage 3.3v +/- 9%



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Temperature Operating

Non-operating

Humidity Operating

Non-operating

Altitude Operating

Non-operating

LED Activity LED Amber – Radio OFF; LED White – Radio ON

1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Realtek 802.11 b/g/n (1x1) + Bluetooth® Combo

Wireless LAN Standards IEEE 802.11b

IEEE 802.11g

IEEE 802.11n

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/n

• 2.402 – 2.482 GHz

Note:

The FCC has declared as of September 1, 2014 products that utilize

passive scanning on channel 12/13 and are capable of

transmitting must fully comply with requirements of 15.247 or

otherwise disable those channels.

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: MCS 0 ~ MCS 07, (20MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM,

Security¹

- IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
- AES-CCMP: 128 bit in hardware
- 802.1x authentication
- WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.



WPA2 certification

IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

Network Architecture

Models

Ad-hoc (Peer to Peer)

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Roaming IEEE 802.11 compliant roaming between access points

Output Power²
• 802.11b: +16dBm minimum

• 802.11g: +14dBm minimum

802.11n HT20(2.4GHz): +13dBm minimum
 802.11n HT40(2.4GHz): +13dBm minimum
 802.11n HT20(5GHz): +12dBm minimum

• 802.11n HT40(5GHz): +12dBm minimum

Power Consumption Transmit: 2.0 W (max)
Receive: 1.6 W (max)

Idle mode (PSP): 180 mW (WLAN Associated)
Idle mode: 60 mW (WLAN unassociated)

Radio disabled: 30 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b, 1Mbps: -94dBm maximum

802.11b, 11Mbps: -86dBm maximum

802.11g, 6Mbps: -88dBm maximum

802.11g, 54Mbps: -74dBm maximum

802.11n, MCS07: -69dBm maximum

802.11n, MCS15: -66dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded antennas for 2.4GHz are provided to the card to support

WLAN and Bluetooth communications.

(Support Dual antenna or Single antenna, depend on platform

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HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Form Factor PCI-Express M.2 MiniCard

Dimensions Type 2230 : 2.3 x 22.0 x 30.0 mm

0r

Type 1630: 2.3 x 16.0 x 30.0 mm

Weight Type 2230: 2.8g

0r

Type 1630: 2g

Operating Voltage 3.3v +/- 9%

Temperature Operating 14° to 158° F (–10° to 70° C)

Non-operating –40° to 176° F (–40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Amber – Radio OFF; LED White – Radio ON

1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth 4.0+EDR Wireless Technology

Bluetooth Specification 4.0+EDR Compliant

Frequency Band 2402 to 2480 MHz

Number of Available Channels 79 (1 MHz) available channels

Data Rates and Throughput 3 Mbps data rate; throughput up to 2.17 Mbps

Synchronous Connection Oriented links up to 3, 64 kbps, voice channels



Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric or 1306.9 kbps symmetric

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device

with a maximum transmit power of +4 dBm for BR and EDR.

Receiver Sensitivity

Modulation	0.01% BER	0.001% BER
GFSK	-80 dBm	-70 dBm
π/4-DQPSK	-80 dBm	-70 dBm
8DPSK	-80 dBm	-70 dBm

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Range Up to 33 ft (10 m)

Electrical Interface USB 2.0 compliant

Bluetooth Software Supported Microsoft Windows Bluetooth Software

Link Topology

Electrical Interface Point to Point, Multipoint Pico Nets up to 7 slaves

Bluetooth Software Supported Full support of Bluetooth Security Provisions

Security

Certifications

Power Management Microsoft Windows ACPI, and USB Bus Support

Power Management Self-configurable to optimize power conservation in all operating

modes, including Standby, Hold, Park, and Sniff

Security All necessary regulatory approvals for supported countries, including:

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Bluetooth Profiles Supported

Power Management ETS 300 328, ETS 300 826

Certifications Low Voltage Directive IEC950



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

UL, CSA, and CE Mark

Serial Port Profile (SPP)1

Service Discovery Application Profile (SDAP)

Dial-Up Networking (DUN)1,2

Generic Object Exchange Profile (GOEP)^{1,2}

Certifications

Object Push Profile (OPP)^{1,2}
File Transfer Profile (FTP)

Bluetooth Profiles Supported Synchronization Profile (SYNC)

Hard Copy Cable Replacement (HCRP)^{1,2} Personal Area Networking Profile (PAN)^{1,2} Human Interface Device Profile (HID)^{1,2}

FAX Profile (FAX)

Basic Imaging Profile (BIP)² Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

Broadcom 802.11 b/g/n (1x1) + Bluetooth® Combo

Wireless LAN Standards IEEE 802.11b

IEEE 802.11q

IEEE 802.11n

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/n

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802.11n, MCS07: -69dBm maximum

802.11n, MCS15: -66dBm maximum

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Type 1630: 2g

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Non-operating -40° to 176° F (-40° to 80° C)

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Non-operating 5% to 95% (non-condensing)

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asymmetric or 1306.9 kbps symmetric



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with a maximum transmit power of +4 dBm for BR and EDR.

Receiver Sensitivity Modulation 0.01% BER 0.00

 Modulation
 0.01% BER
 0.001% BER

 GFSK
 -80 dBm
 -70 dBm

 π/4-DQPSK
 -80 dBm
 -70 dBm

 8DPSK
 -80 dBm
 -70 dBm

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Range Up to 33 ft (10 m)

Electrical Interface USB 2.0 compliant

Bluetooth Software Supported Microsoft Windows Bluetooth Software

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Bluetooth Software Supported Full support of Bluetooth Security Provisions

Security

Power Management Microsoft Windows ACPI, and USB Bus Support

Power Management Self-configurable to optimize power conservation in all operating

modes, including Standby, Hold, Park, and Sniff Certifications

Security All necessary regulatory approvals for supported countries, including:

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Bluetooth Profiles Supported

Power Management ETS 300 328, ETS 300 826

Certifications Low Voltage Directive IEC950

Certifications UL, CSA, and CE Mark

Bluetooth Profiles Supported Serial Port Profile (SPP)¹

Service Discovery Application Profile (SDAP)



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Dial-Up Networking (DUN)1,2

Generic Object Exchange Profile (GOEP)1,2

Object Push Profile (OPP)1,2 File Transfer Profile (FTP) Synchronization Profile (SYNC)

Hard Copy Cable Replacement (HCRP)^{1,2} Personal Area Networking Profile (PAN)1,2 Human Interface Device Profile (HID)1,2

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0 Combo

Wireless LAN IEEE 802.11a **Standards** IEEE 802.11b IEEE 802.11g IEEE 802.11n Interoperability Wi-Fi certified **Frequency Band** 802.11b/q/n

• 2.402 – 2.482 GHz

Note:

The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

802.11a

- 4.9 4.95 GHz (Japan)
- 5.15 5.25 GHz
- 5.25 5.35 GHz
- 5.47 5.725 GHz
- 5.825 5.850 GHz

Note:

Indonesia only supports 5.725 - 5.825 GHz (CH149 - CH161)

Antenna Structure Data Rates

2 transmit; 2 receive (2x2) 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11b: 1, 2, 5.5, 11 Mbps

802.11q: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)



Output Power²

Modulation Direct Sequence Spread Spectrum

CCK, BPSK, QPSK, 16-QAM, 64-QAM

Security¹
• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g

mode only

• AES-CCMP: 128 bit in hardware

• 802.1x authentication

WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

WPA2 certification

IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX

Lite

WAPI

Sub-channels Multinational support with frequency bands and channels compliant to

local regulations.

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between band Access Points

• 802.11b: +16dBm minimum

802.11g: +14dBm minimum
 802.11a: +14dBm minimum

802.11n HT20(2.4GHz): +13dBm minimum

802.11n HT40(2.4GHz): +13dBm minimum

802.11n HT20(5GHz): +12dBm minimum

802.11n HT40(5GHz): +12dBm minimum

Power Consumption Transmit: 2.0 W (max)

Receive: 1.6 W (max)

Idle mode (PSP): 180 mW (WLAN Associated)
Idle mode: 60 mW (WLAN unassociated)

Radio disabled: 30 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b, 1Mbps: -94dBm maximum

802.11b, 11Mbps: -86dBm maximum 802.11g, 6Mbps: -88dBm maximum 802.11g, 54Mbps: -74dBm maximum 802.11a, 6Mbps: -86dBm maximum 802.11a, 54Mbps: -72dBm maximum 802.11n, MCS07: -69dBm maximum 802.11n, MCS15: -66dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card

to support WLAN MIMO and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard

Dimensions Type 2230 : 2.3 x 22.0 x 30.0 mm

Ur

Type 1630: 2.3 x 16.0 x 30.0 mm

Weight Type 2230 : 2.8g



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

0r

Type 1630: 2q

Operating Voltage 3.3v +/- 9% **Temperature** Operating

14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-Non-operating condensing)

5% to 95% (non-condensing)

0.001% BER

Altitude 0 to 10,000 ft (3,048 m) Operating

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber - Radio OFF; LED White - Radio ON 1. Check latest software/driver release for updates on supported security features.

2. Maximum output power may vary by country according to local regulations.

3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth 4.0+EDR Wireless Technology

Bluetooth Specification 4.0+EDR Compliant **Frequency Band** 2402 to 2480 MHz

Number of Available Channels 79 (1 MHz) available channels

Data Rates and Throughput 3 Mbps data rate; throughput up to 2.17 Mbps

Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric or 1306.9 kbps symmetric

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device

with a maximum transmit power of +4 dBm for BR and EDR. 0.01% BER

GFSK -80 dBm -70 dBm π/4-DQPSK -80 dBm -70 dBm 8DPSK -80 dBm -70 dBm

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Modulation

Selective Suspend 17 mW

Range Up to 33 ft (10 m) **Electrical Interface** USB 2.0 compliant

Bluetooth Software Supported

Link Topology

Receiver Sensitivity

Microsoft Windows Bluetooth Software

Electrical Interface Point to Point, Multipoint Pico Nets up to 7 slaves Bluetooth Software Supported Full support of Bluetooth Security Provisions

Security

Power Management Microsoft Windows ACPI, and USB Bus Support

Power Management Self-configurable to optimize power conservation in all operating

Certifications modes, including Standby, Hold, Park, and Sniff

Security All necessary regulatory approvals for supported countries, including:

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Bluetooth Profiles Supported

Power Management ETS 300 328, ETS 300 826 Certifications Low Voltage Directive IEC950



Certifications

UL, CSA, and CE Mark

Serial Port Profile (SPP)1

Service Discovery Application Profile (SDAP)

Dial-Up Networking (DUN)1,2

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Object Push Profile (OPP)1,2 File Transfer Profile (FTP)

Synchronization Profile (SYNC) **Bluetooth Profiles Supported**

Hard Copy Cable Replacement (HCRP)^{1,2} Personal Area Networking Profile (PAN)1,2 Human Interface Device Profile (HID)^{1,2}

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

Realtek Ethernet (10/100/1000)

Ethernet Features

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100

Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q VLAN support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

IEEE 802.3az EEE (Energy Efficient Ethernet)

Jumbo Frame 9K

Auto MDI/MDIX Crossover cable detection

ACPI compliant - multiple power modes Power

Situation-sensitive features reduce power consumption Management

Advanced link down power saving for reducing link down power

consumption

Performance TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS) **Features**

Large send offload and Giant send offload

Receiving Side Scaling

Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft

Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x,

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status

Interface PCI Express 1.1to fully support ASPM LOs/L1 and CLKREQ



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

NIC Device Driver Name Realtek PCIe GBE Ethernet Family Controller

AUDIO/MULTIMEDIA

DTS STUDIO SOUND™

Hardware Implementation Conexant

Function Key Volume Volume up, volume down, and mute

Controls

Full Duplex Yes

Microphone In Stereo

Headphone/Line Out Stereo

Integrated Microphone Yes, dual digital microphone array

Audio Output Quality Frequency Response 20Hz – 20kHz

Signal to Noise Ratio 106 dB (DAC), 102dB (ADC)

Total Harmonic 91dB THD+n on Line Out/HP (0.003%)

Distortion

Play Sampling Rate(s) Up to 192kHz

Record Sampling Rate(s) Up to 96Khz

DAC 16, 20 or 24-bit

ADC 16, 20 or 24-bit



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Integrated **Speakers**

Stereo Power Rating

2 Watts

Impedance

4 Ohms

POWER

HP 45W Smart AC Adapter

Dimensions 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

Weight 0.386 lb (175g) max Input 90 to 265 VAC

> 87.74% at 115Vac and 88.4% at **Input Efficiency**

230Vac

Input frequency range 47 to 63 Hz 1.4 A at 90 VAC **Input AC current**

Output **Output power** 45W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <8.0A

Over voltage protection < 29V max automatic shutdown

Over short protection Auto-recovery and no damage

Connector 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

Non-operating (storage)

-4° to 185° F (-20° to 85° C) temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

Humidity 20% to 95% 10% to 95% **Storage Humidity**

EMI and Safety *CE Mark - full compliance with LVD and EMC directives Certifications

* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W EM Smart AC

Adapter (PRC, India only) **Dimensions** 4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)

Weight 0.62 lb (290g) max Input 90 to 265 VAC

> **Input Efficiency** 87% min at 115 VAC

Input frequency range 47 to 63 Hz **Input AC current** 1.7 A at 90 VAC

Output **Output power** 65W



DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <11.0A

Over voltage protection< 29V max automatic shutdown</th>Over short protectionAuto-recovery and no damage

Connector 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 32° to 95° F (0° to 35° C)

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* MTBF - over 200,000 hours at 25°C ambient condition.



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Battery 430/440 G3

HP 4-cell, Long Life 44 WHr Li-ion

Dimensions (H x W x L) 34.96x277.2x21.63 mm (1.38x10.91x0.85 inch)

Weight 0.32 kg (0.72lb)
Cells/Type 4cell Lithium-Ion

Energy Voltage 14.8V

Amp-hour capacity 3.0Ah Watt-hour capacity 44Wh

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 122° F(-10° to 60° C) **Non-operating** -4° to 122° F (-20° to 60° C)

Battery System in OFF or <3 hours

Re-Charge Time Standby Mode

Fuel Gauge LED No
Warranty 1 year
Optional Travel Battery No

Available

HP 6-cell, Long Life 55 WHr Li-ion. Dimensions (H x W x L) 35.31x49.59x277.2

Weight 340g

Cells/TypeCylindrical ICR18650 C4Energy10.68VVoltage

5.15Ah Amp-hour capacity

55Wh Watt-hour capacity

Temperature 32° to 113° F (0° **Operating (Charging)**

to 45°C)

14 to 140° F (-10° **Operating (Discharging)**

to 60° C)

-4° to 140° F (- Non-operating

20° to 60° C)

Battery Re-Charge Time 3 hours System in OFF or Standby Mode

3 to 5 hours System ON

Fuel Gauge LED NA

Warranty 3years or 1000

cycles



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC **HP ProBook 450 G3 Notebook PC**

Technical Specifications

Optional Travel Battery NA **Available**

450 G3

HP 4-cell, Long Life 44 WHr Li-ion

> Dimensions (H x W x L) 33.40*275.80*20.60 mm (1.32x10.86x0.81 inch)

Weight 0.3 kg (0.66lb) Cells/Type 4cell Lithium-Ion

> Voltage Energy 14.8V

> > **Amp-hour capacity** 3.0Ah **Watt-hour capacity** 44Wh

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

> Operating 14° to 122° F(-10° to 60° C) (Discharging) -4° to 122° F (-20° to 60° C) Non-operating

Battery System in OFF or <3 hours

Re-Charge Time Standby Mode

Fuel Gauge LED No Warranty 1 year **Optional Travel Battery** No

Available

HP 6-cell, Long Life 55 WHr Li-ion

Dimensions (H x W x L)

45.59x275.8x33.89

Weight

Cylindrical ICR18650 C4

Cells/Type

Energy 10.68V Voltage

330q

Amp-hour capacity 5.15Ah

55Wh **Watt-hour capacity**



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Technical Specifications

Temperature 32° to 113° F (0° to 45° C)

14 to 140° F (-10° to 60° C)

-4° to 140° F (-20° to 60° C)

Battery Re-Charge Time

3 to 5 hours

3 hours

Fuel Gauge LED NA

Warranty 3years or 1000 cycles

Optional Travel Battery

Available

Operating (Charging)
Operating (Discharging)

Non-operating

System in OFF or Standby Mode

System ON

ENVIRONMENTAL

TBD

Country of Origin

China



Options and Accessories (sold separately and availability may vary by country)

Туре	Description	Part #
Cases	HP Essential Top Load Case	H2W17AA
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Essential Messenger Case (up to 17.3")	H1D25AA
	HP Business Backpack (up to 17.3")	H5M90AA
	HP Business Case(up to 15.6")	H5M92AA
Docking	HP 3001pr USB 3 Port Replicator	F3S42AA
	HP 3005pr USB 3.0 Port Replicator	H1L08AA
	HP Adjustable Display Stand	AW663AA
Input/Output – Mice	HP Stylish USB Keyboard and Mouse	H4B80AA
	HP Stylish Wireless Keyboard and Mouse	H4B79AA
	HP 2.4 GHz Keyboard and Mouse	G1K29AA
	HP Ultra Mobile Wireless Mouse	H6F25AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Travel Mouse	G1K28AA
	HP Ultrathin Wireless Mouse	L9V78AA
	HP Conferencing Keyboard	K8P74AA
	HP Speaker Phone	K7V16AA
	HP Wired Headset	K7V17AA
	HP HDMI to DVI Adapter	F5A28AA
	HP Wireless Display Adapter	J1V25AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA
	HP 65W Smart AC Adapter	H6Y89AA
	HP 65W Slim AC Adapter	H6Y82AA
	HP Power Bank	N9F71AA
Storage	HP External USB Optical Drive	F2B56AA
	HP 500GB 7200rpm HDD	F3B97AA
	HP External Portable USB3.0 HDD	K6A93AA
Security	HP UltraSlim Keyed Cable Lock	H4D73AA
	HP USB Smart Card Reader	F6V67AA
	HP 14.0" NB Privacy Filter	J6E65AA
Displays	HP ProDisplay P242va 24-inch Monitor	K7X32AA
	HP EliteDisplay E222 21.5-inch Monitor	M1N96AA
	HP EliteDisplay E240 23.8-inch Monitor	M1N99AA
	HP EliteDisplay E240c 23.8-inch Monitor	M1P00AA
	HP EliteDisplay S270c 27-inch Curved Display	K1M38AA



HP ProBook 430 G3 Notebook PC HP ProBook 440 G3 Notebook PC HP ProBook 450 G3 Notebook PC

Summary of Changes

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