



# HP ProBook 450 15.6 inch G10 Notebook PC (9G2D5ET)



## Overview

### Essential, commercial-grade features

The HP ProBook 450 15-inch laptop provides growing businesses with the commercial-grade performance, multi-layered endpoint security, and durability in an easily upgradeable design. Powered by the latest Intel® processor[2] and long battery life, this feature-rich PC is well-equipped for long-term productivity and helps enable hybrid work.

### Optimized for hybrid work

Look your best wherever you work with enhanced camera features and lighting adjustments.[3]

### Performance for growing business

Keep up with demanding tasks with the latest Intel® CPU[2,4], long battery life, and upgradeable memory and storage.

### Tested for durability

Passed 19 MIL-STD tests[6] for durability and easily serviceable—helping make the most of your IT investment.

# Features

## Let nothing stand in your way

Power through your day with Windows 11 Home and the powerful collaboration and connectivity features from HP.<sup>[1]</sup>

## 13th Gen Intel® multi-core processor

Get the perfect combination of power, snappy performance, and value with a 13th gen Intel® Core™ processor to handle multiple work tasks smoothly and reliably with multiple processing cores.<sup>[2]</sup>

## Fast and efficient wireless LAN

The portability of your PC and the reliability of a fast connection determines where you can work. Get a fast and reliable connection in dense wireless environments with gigabit-speed Wi-Fi 6.<sup>[5]</sup>

## HP Sure Sense

Malware is evolving rapidly and traditional antivirus can't always recognize new attacks. Protect your PC against never-before-seen attacks with HP Sure Sense, which uses deep learning AI to provide exceptional protection against advanced malware.

## Browse confidently

Help protect your PC from websites and read only Microsoft Office and PDF attachments with embedded malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.<sup>[7]</sup>

## Work without interruption

Keep productivity high and downtime low with the fully integrated and automated features of the HP BIOSphere Gen6 firmware ecosystem. Your PCs have extra protection thanks to automatic updates and security checks.<sup>[8]</sup>

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*[2] Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.*

*[3] Requires myHP application and Windows OS.*

*[4] Optional feature that must be configured at the time of purchase.*

*[6] MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Service.*

*[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.*

*[5] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ax devices. Wi-Fi® supporting gigabit speeds is achievable with Wi-Fi 6 (802.11ax) when*

*transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.*

*[7] HP Sure Click supports Microsoft® Internet Explorer and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.*

*[8] HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.*

## Specifications

<b>Operating system</b>	Windows 11 Home – HP recommends Windows 11 Pro for business <sup>[1]</sup>
<b>Product color</b>	Pike silver plastic
<b>Processor family</b>	13th Generation Intel® Core™ i7 processor
<b>Processor</b>	Intel® Core™ i7-1355U (up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads) <sup>[6,7]</sup>
<b>Memory</b>	32 GB DDR4-3200 MHz RAM (2 x 16 GB)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	1 TB PCIe® Gen4 NVMe™ TLC SSD
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® UHD Graphics
<b>Display</b>	39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC
<b>Display</b>	15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC <sup>[14,15,16]</sup>
<b>Display size (diagonal)</b>	39.6 cm (15.6")
<b>Display size (diagonal)</b>	15.6"
<b>Audio</b>	Dual stereo speakers, dual array microphones
<b>Minimum dimensions (W x D x H)</b>	35.94 x 23.39 x 1.99 cm
<b>Weight</b>	Starting at 1.79 kg <i>(Weight will vary by configuration. Does not include power adapter.)</i>
<b>Keyboard</b>	HP Premium Keyboard – spill-resistant, backlit keyboard with numeric keypad
<b>Pointing device</b>	Clickpad with multi-touch gesture support, taps enabled as default
<b>Camera</b>	720p HD camera
<b>Ports</b>	2 USB Type-A 5Gbps signaling rate (1 charging, 1 power); 1 AC power; 1 HDMI 2.1; 1 stereo headphone/microphone combo jack; 1 RJ-45; 2 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <i>(HDMI cable sold separately.)</i>
<b>Package dimensions (W x D x H)</b>	6.9 x 48.3 x 30.5 cm
<b>Wireless</b>	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)
<b>Power</b>	HP Smart 45 W External AC power adapter <sup>[37]</sup>
<b>Battery type</b>	HP Long Life 3-cell, 42 Wh Li-ion
<b>Battery weight</b>	0.39 lb
<b>Battery weight</b>	180 g
<b>Energy star certified</b>	ENERGY STAR® certified

<b>Management features</b>	HP Client Management Script Library (download); HP Driver Packs (download); HP Client Catalog (download); HP Manageability Integration Kit Gen4 (download); HP Image Assistant Gen5 (download); HP Cloud Recovery <sup>[20,21]</sup>
<b>Sustainable impact specifications</b>	Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic
<b>Security management</b>	Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Sure Click; HP Sure Sense; BIOS Update via Network; HP Sure Admin; HP BIOSphere Gen6; HP Client Security Manager Gen7; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock; HP Sure Run Gen5; Secured-Core PC Enable <sup>[22,23,24,25,26,27,28,29,30,31,32,33,34]</sup>
<b>Software included</b>	HP Connection Optimizer; HP Hotkey Support; HP Support Assistant; HP Power Manager; myHP; HP Privacy Settings; HP Notifications; HP QuickDrop; HP PC Hardware Diagnostics Windows; HP Services Scan; HP Smart Support (download) <sup>[17,18,19,38,44,45]</sup>
<b>UPC number</b>	197961980790
<b>Manufacturer Warranty</b>	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

## Additional specifications

<b>Battery brand</b>	HP
<b>Battery capacity</b>	42
<b>Battery capacity uom</b>	Wh
<b>Battery cells number</b>	3
<b>Battery life</b>	Long Life
<b>Battery life note</b>	Battery is internal and not replaceable by customer. Serviceable by warranty.
<b>Battery type</b>	Li-ion
<b>Bluetooth version</b>	Bluetooth® 5.3
<b>Brightness</b>	250 nits
<b>Camera resolution (vertical)</b>	720p
<b>Camera resolution standard</b>	HD
<b>Color gamut</b>	45% NTSC
<b>Datasheet photo 1</b>	AHID/b91bfe13fb8be9d8c5835be445a781b144194cce
<b>Datasheet photo 3</b>	AHID/2fe2ae7fe007a85a8725718bcc591b6eca0d1ba2
<b>Datasheet photo 4</b>	AHID/9b32c542a6f1d8169766a6fcb27a6bcd4c5c8848
<b>Datasheet photo 5</b>	AHID/c6a40f33081433c33f1726002d703e6cafa3b4c4
<b>Display</b>	39.6 cm (15.6") diagonal FHD display
<b>Display</b>	15.6" diagonal FHD display
<b>Display bezel</b>	narrow bezel
<b>Display brightness</b>	250
<b>Display brightness uom</b>	nits
<b>Display panel technology</b>	IPS
<b>Display resolution (pixels)</b>	1920 x 1080
<b>Display resolution standard</b>	FHD
<b>Display size (diagonal) uom</b>	"
<b>Display size (diagonal, imperial)</b>	15.6
<b>Display size (diagonal, metric)</b>	39.6
<b>Display size (diagonal, metric) uom</b>	cm
<b>Display surface treatment</b>	anti-glare
<b>ECC memory</b>	non-ECC
<b>Fingerprint reader</b>	Fingerprint sensor
<b>Graphic card footnote number</b>	[43]

<b>Keyboard backlight</b>	backlit
<b>Keyboard features</b>	Spill-resistant
<b>Keyboard keypad</b>	numeric keypad
<b>Keyboard name</b>	HP Premium Keyboard
<b>Legal tagline</b>	HP recommends Windows 11 Pro for business
<b>Memory and storage</b>	32 GB memory; 1 TB SSD storage
<b>Memory layout (slots &amp; size)</b>	2 x 16 GB
<b>Memory module type</b>	DIMM
<b>Memory size</b>	32
<b>Memory size uom</b>	GB
<b>Memory speed</b>	3200
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR4
<b>Number of memory slots</b>	2
<b>Playbook TS icon OS</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png</a>
<b>Playbook TS icon battery life</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png</a>
<b>Playbook TS icon connectivity</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png</a>
<b>Playbook TS icon dimensions NB</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png</a>
<b>Playbook TS icon display NB</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png</a>
<b>Playbook TS icon graphics</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png</a>
<b>Playbook TS icon memory</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png</a>
<b>Playbook TS icon processor</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png</a>
<b>Playbook TS icon storage</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png</a>
<b>Playbook TS icon weight imperial</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png</a>
<b>Playbook TS icon weight metric</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png</a>
<b>Processor Brand</b>	Intel®
<b>Processor cache</b>	12 MB L3
<b>Processor core</b>	10
<b>Processor family</b>	Core™ i7
<b>Processor frequency technology</b>	Intel® Turbo Boost Technology
<b>Processor generation</b>	13th Generation
<b>Processor maximum frequency</b>	5.0
<b>Processor maximum frequency uom</b>	GHz
<b>Processor model</b>	1355U

<b>Processor threads</b>	12
<b>Product brand name</b>	HP
<b>Product long name specifications</b>	HP ProBook 450 15.6 inch G10 Notebook PC, 15.6", Windows 11 Home – HP recommends Windows 11 Pro for business, Intel® Core™ i7, 32GB RAM, 1TB SSD, FHD
<b>Product short name specifications</b>	HP ProBook 450 15.6 inch G10 Notebook PC, 15.6", Intel® Core™ i7, 32GB RAM, 1TB SSD
<b>Standard memory note</b>	Transfer rates up to 3200 MT/s.
<b>Storage capacity</b>	1
<b>Storage capacity uom 01</b>	TB
<b>Storage interface 01</b>	PCIe® Gen 4
<b>Storage interface protocol 01</b>	NVMe™
<b>Storage memory technology 01</b>	TLC
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>Touchscreen</b>	No
<b>UNSPSC code</b>	43211503
<b>Wireless Model</b>	Wi-Fi 6E AX211
<b>Wireless antenna</b>	2x2
<b>Wireless standard</b>	Wi-Fi 6E
<b>Wireless supplier</b>	Intel®
<b>Wireless transfer speeds</b>	Supporting Gigabit data rate

[1] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[6] 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. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

[14] High-definition (HD) / Full high-definition (FHD) content required to view HD /FHD images.

[15] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

[16] Actual brightness will be lower with touchscreen.

[17] HP Support Assistant requires Windows and Internet access.

[18] HP Quick Drop requires Internet access and Windows 10 or higher PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with



the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

[19] HP Smart Support requires HP TechPulse to be installed. For more information about how to enable or to download HP Smart Support, please visit <http://www.hp.com/smart-support> .

[20] HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html> .

[21] HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/document/c05115630> .

[22] 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.

[23] HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[24] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.

[25] HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

[26] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

[27] HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.

[28] HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher.

[29] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[30] HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

[31] HP BIOSphere Gen6 features may vary depending on the platform and configuration.

[32] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[33] HP Fingerprint sensor is an optional feature that must be configured at purchase.

[34] Secured-Core PC Enable requires an Intel® vPro® , AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.

[37] Availability may vary by country.

[38] Microsoft Office sold separately and requires Internet access for activation.

[44] HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.

[45] HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and

*analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit <http://www.hpdaas.com/requirements> . Not applicable in China.*

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