



HP ProBook 455 G8 Notebook PC (4K789EA)

Overview

Modern design for today's workstyles

With a new compact design, the HP ProBook 455 Laptop PC delivers commercial performance, security, and durability to professionals at growing companies who move from desk to meeting room to home.

A new design that fits modern workstyles

The compact, light, slim chassis with aluminum components is easy to carry from place to place. Enjoy over an 87-percent screen-to-body ratio and a quiet, responsive keyboard.

Power that lasts

Power through your day with the latest AMD® Ryzen™ PRO processor[2] and high-performance memory. The HP ProBook 455 drives performance with long battery life and high-speed solid-state drives.

Protected by HP Wolf Security

HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.[4]

Features

Let nothing stand in your way

Power through your day with Windows 10 Pro and the powerful security, collaboration and connectivity features from HP.^[1]

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.

Work without interruption

Keep productivity high and downtime low with the fully integrated and automated features of the HP BIOSphere Gen5 firmware ecosystem. Your PCs have extra protection thanks to automatic updates and security checks.

Automatic recovery from firmware attacks

Firmware attacks can completely devastate your PC. Stay protected with HP's self-healing BIOS - HP Sure Start Gen6 automatically recovers the BIOS from malware, rootkits, or corruption.

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.^[3]

Speed up the basics of IT management

The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.^[5]

[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. AMD's numbering, branding and/or naming is not a measurement of higher performance.

[4] HP Wolf Security for Business requires Windows 10, includes various HP security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features and OS requirements.

[1] 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.windows.com>.

[3] 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.

[5] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

Specifications

Operating system	Windows 10 Pro 64
Product color	Pike silver aluminum
Processor family	AMD Ryzen™ 5 processor
Processor	AMD Ryzen™ 5 5600U (up to 4.2 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads)
Memory	16 GB DDR4-3200 MHz RAM (1 x 16 GB)
Memory Slots	2 SODIMM
Internal Storage	512 GB PCIe® NVMe™ SSD
Optical drive	Not included
Graphics	Integrated
Graphics (integrated)	AMD Radeon™ Graphics
Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC
Display	15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC ^[12,13,14]
Display size (diagonal)	39.6 cm (15.6")
Audio	Dual stereo speakers, dual array microphones
Minimum dimensions (W x D x H)	35.94 x 23.39 x 1.99 cm
Weight	Starting at 1.74 kg (Weight will vary by configuration.)
Keyboard	HP Premium Keyboard – spill-resistant, backlit keyboard with numeric keypad
Pointing device	Clickpad with multi-touch gesture support
Camera	720p HD IR camera
Ports	3 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging, 1 power); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 RJ-45; 1 headphone/microphone combo; 1 HDMI 1.4b; 1 AC power (HDMI cable sold separately.)
Package dimensions (W x D x H)	6.9 x 52 x 30.5 cm
Network interface	Realtek 10/100/1000 GbE NIC
Wireless	Realtek 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo
Power	HP Smart 45 W External AC power adapter ^[28]
Battery type	HP Long Life 3-cell, 45 Wh Li-ion
Battery weight	190 g
Energy star certified	ENERGY STAR® certified

Management features	HP Driver Packs; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Manageability Integration Kit Gen3; HP Client Management Script Library (download) ^[16,17]
Sustainable impact specifications	Low Halogen; Outside box and corrugated cushions are 100% sustainably sourced and recyclable
Security management	Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; Preboot authentication; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP Sure Click; Windows Defender; HP BIOSphere Gen5; HP Sure Sense; BIOS Update via Network; Support for chassis padlocks and cable lock devices; HP Client Security Manager Gen6; HP Sure Start Gen6; HP Sure Admin ^[18,19,20,21,22,23,24,25,26,27]
Software included	HP Connection Optimizer; HP Image Assistant; HP Hotkey Support; HP Noise Cancellation Software; Buy Office (Sold separately); HP Power Manager; myHP; HP Privacy Settings; HSA Fusion for Commercial; HSA Telemetry for Commercial; Touchpoint Customizer for Commercial; HP Notifications; HP Wireless Button Driver; Xerox® DocuShare® 30 day free trial offer ^[15,36]
Manufacturer Warranty	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. ^[29]

Additional specifications

Battery life note	Battery is internal and not replaceable by customer. Serviceable by warranty.
Bluetooth version	Bluetooth® 5.0
Brightness	250 nits
Camera Infrared	IR
Camera resolution (vertical)	720p
Camera resolution standard	HD
Color gamut	45% NTSC
Datasheet photo 1	AHID/a2098018bb73e31606598eaf9549219100d194c9
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/e199bc8207ac5b4585a939549380d3d09580ba28
Datasheet photo 4	AHID/e2348917fb594ba708c2c3eb6ed62c3e91bef2ca
Datasheet photo 5	AHID/c1402a21e1c861242b3e3070bada3669d38ce9bc
Display	39.6 cm (15.6") diagonal FHD display
Display	15.6" diagonal FHD display
Display bezel	narrow bezel
Display brightness	250
Display brightness uom	nits
Display panel technology	IPS
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
Display size (diagonal) uom	"
Display size (diagonal, imperial)	15.6
Display size (diagonal, metric)	39.6
Display size (diagonal, metric) uom	cm
Display surface treatment	anti-glare
ECC memory	non-ECC
Fingerprint reader	Fingerprint sensor
Keyboard backlight	backlit
Keyboard features	Spill-resistant
Keyboard keypad	numeric keypad
Keyboard name	HP Premium Keyboard
Legal tagline	HP recommends Windows 10 Pro for business

MDA key selling point	Windows 10 or other operating systems available
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	1 x 16 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	3200
Memory speed uom	MHz
Memory type	DDR4
Number of memory slots	1
Package dimensions (W x D x H)	2.71 x 20.47 x 12 in
Processor Brand	AMD
Processor cache	16 MB L3
Processor core	6
Processor family	Ryzen™ 5
Processor maximum frequency	4.2
Processor maximum frequency uom	GHz
Processor model	5600U
Processor threads	12
Product brand name	HP
Product long name specifications	HP ProBook 455 G8 Notebook PC, 15.6", Windows 10 Pro 64, AMD Ryzen™ 5, 16GB RAM, 512GB SSD, FHD

Sales office and telephone number

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Standard memory note	Transfer rates up to 3200 MT/s.
Storage capacity 01	512
Storage capacity uom 01	GB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
Touchscreen	No
Wireless Model	Wireless-AC
Wireless antenna	2x2
Wireless standard	802.11a/b/g/n/ac
Wireless supplier	Realtek

[12] HD content required to view HD images.

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

[14] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

[15] HP Connection Optimizer requires Windows 10.

[16] HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

[17] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

[18] Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: <https://www.absolute.com/about/legal/agreements/absolute/>

[19] 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™.

[20] Firmware TPM is version 2.0.

[21] HP Sure Click requires Windows 10. See https://bit.ly/2PrLT6A_SureClick for complete details.

[22] Windows Defender Opt in and internet connection required for updates.

[23] HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.

[24] HP Sure Sense requires Windows 10.

[25] HP Sure Start Gen6 is available on select HP PCs.

[26] HP Sure Admin requires Windows 10, 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.

[27] HP Fingerprint Sensor is an optional feature and requires configuration at purchase.

[28] Availability may vary by country.

[29] HP Care Packs are sold separately. 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. For details, visit <http://www.hp.com/go/cpc>. 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.

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Accessories

Cases and Covers

★ : Recommended

Cases

HP 15.6 Business Top Load	2SC66AA ★
HP 15.6 Business Top Load	2SC66A6
HP 15.6 Business Top Load	2SC66ET
HP 17.3 Business Slim Top Load	2UW02A6
HP 17.3 Business Slim Top Load	2UW02AA
HP All in One Carry On Luggage	7ZE80AA
HP Executive 15.6 Leather Top Load	6KD09AA
HP Executive 15.6 Top Load	6KD06AA
HP Executive 17.3 Top Load	6KD08AA
HP Prelude 15.6-inch Laptop Bag	2Z8P4AA
HP Prelude Pro Recycled Top Load	1X645A6
HP Prelude Pro Recycled Top Load	1X645AA
HP Prelude Topload	1E7D7AA
HP Renew Business 15.6-inch Laptop Bag	3E5F8A6
HP Renew Business 15.6-inch Laptop Bag	3E5F8AA
HP Renew Business 17.3-inch Laptop Bag	3E2U6AA

Backpacks

HP Prelude Pro Recycled Backpack	1X644AA ★
HP 17.3 Business Backpack	2SC67A6
HP 17.3 Business Backpack	2SC67AA
HP 17.3 Business Backpack	2SC67ET
HP Executive 15.6 Backpack	6KD07AA
HP Executive 17.3 Backpack	6KD05AA
HP Prelude 15.6-inch Backpack	2Z8P3AA
HP Prelude Backpack 15.6	1E7D6AA
HP Prelude Pro Recycled Backpack	1X644A6
HP Renew Business 17.3-inch Laptop Backpack	3E2U5A6
HP Renew Business 17.3-inch Laptop Backpack	3E2U5AA

Batteries/Chargers/Adapters

AC Adapters

HP 65W USB-C LC Power Adapter	1P3K6AA ★
HP 45W Smart AC Adapter	H6Y88AA ★
HP 65W Slim AC Adapter	H6Y82AA ★
HP 65W Smart AC Adapter	H6Y89AA
HP 65W USB-C Slim Travel Power Adapter	3PN48AA

Power Adapters

HP 65W USB-C Power Adapter	1HE08AA ★
HP Pavilion USB-C to HDMI 2.0 Adapter	2PC54AA

Battery Adapters and Chargers

HP 65W USB-C Auto Adapter	5TQ76AA
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Docking and Port Replicators

Docking Stations

HP USB-C Dock G5	5TW10AA ★
HP USB-C Dock G5	26D32AA ★
HP USB-C Mini Dock	1PM64AA ★
HP USB-C/A Universal Dock G2	5TW13AA ★
HP Thunderbolt Dock 120W G2	2UK37AA
HP Thunderbolt Dock 120W G2	2UK37ET
HP Thunderbolt Dock 120W G2 with Audio	3YE87AA
HP Thunderbolt Dock 120W with HDMI Adapter	6HP48AA
HP Thunderbolt Dock G2 with Combo Cable	3TR87AA
HP Thunderbolt Dock G2 with Combo Cable	3TR87ET
HP USB-C Dock G5	5TW10ET
HP USB-C Travel Hub G2	7PJ38AA
HP USB-C/A Universal Dock G2	5TW13ET

Docking Accessories

HP Thunderbolt Dock Audio Module	3AQ21AA
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Keyboards/Mice and Input Devices

Mice

HP 128 Laser Wired Mouse	265D9AA ★
HP Bluetooth Travel Mouse	6SP30AA ★
HP 125 Wired Mouse	265A9AA ★
HP 3-button USB Laser Mouse	H4B81AA ★
HP 635 Multi-Device Wireless Mouse	1D0K2AA
HP 935 Creator Wireless Mouse	1D0K8AA
HP Comfort Grip Wireless Mouse	H2L63AA
HP Elite Presenter Mouse	2CE30AA
HP Essential USB Mouse	2TX37AA
HP USB Fingerprint Mouse	4TS44AA
HP USB Premium Mouse	1JR32AA
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET
HP Wireless Premium Mouse	1JR31AA
HP X4000b Bluetooth Mouse	H3T50AA
USB Travel Mouse	G1K28AA
USB Travel Mouse	G1K28ET

Keyboards

HP 125 Wired Keyboard	266C9AA
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wireless (Link-5) Keyboard	T6U20AA

Keyboard and Mouse Kits

HP 225 Wired Mouse and Keyboard Combo	286J4AA
HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
HP Slim Wireless Keyboard and Mouse	T6L04AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA

Security and Protection

Privacy Filter

HP 15.6-in Privacy Filter	J7H71AA
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PC Locks

HP Nano Keyed Cable Lock	1AJ39AA
HP Nano Master Keyed Cable Lock	1AJ40AA
HP Sure Key Cable Lock	6UW42AA

Memory

DDR Memory

HP 16 GB 3200MHz DDR4 Memory	286J1AA
HP 4 GB 3200MHz DDR4 Memory	286H5AA
HP 8 GB 3200MHz DDR4 Memory	286H8AA

Cabinets and Stands

Carts

HP 20 Mgd Charging Cart V2	T9E83AA
HP 30 Mgd Charging Cart V2	T9E85AA

Point of Sales System Options

POS Display Accessories

HP Engage One 10.1-inch Display	1XD80AA
HP Engage One 10.1-inch Touch Display	1XD81AA
HP Engage One W 10.1-inch Display	3FH66AA
HP Engage One W 10.1-inch Touch Display	3FH67AA
HP L5010ta	2KY27AA

PC Drives and Storage

PC DVD Drives

HP External USB DVDRW Drive	F2B56AA
HP External USB DVDRW Drive	F2B56ET
HP USB External DVD-RW Writer	Y3T76AA

Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Adapter	H4F02AA
HP HDMI to VGA Adapter	H4F02ET

Audio/Multimedia and Communication Devices

Headsets

HP Stereo 3.5mm Headset	T1A66AA	obsolete
HP Stereo USB Headset	T1A67AA	obsolete

Phones

HP UC Speaker Phone	4VW02AA
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Cables/Cable Kits/Cable Adapters

Cable Adapters

HP Thunderbolt 120W G2 Cable	3XB94AA
HP Thunderbolt Dock G2 Combo Cable	3XB96AA
HP USB Type-C to RJ45 Adapter	V8Y76AA
HP USB-C to HDMI 2.0	1WC36AA
HP USB-C to RJ45 Adapter	V7W66AA
HP USB-C to USB 3.0 Adapter	N2Z63AA
HP USB-C to USB-A Hub	Z6A00AA

Expansion Solution and Controller Cards

Port Adapters

HP USB-C to 4.5 mm Adapter	4ST73AA
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Network Adapters

Wireless LAN

HP XMM™ 7360 LTE-Advance WWAN	3FB01AA
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Monitors

Business Monitors

★ : Recommended

P-Series

HP P24h G4 FHD Monitor	7VH44AA ★
HP P22 G4 22 FHD Monitor	1A7E4AA
HP P22h G4 FHD Monitor	7UZ36AA
HP P22h G4 FHD Monitor	7UZ36AT
HP P22v G4 Monitor	9TT53AA
HP P24 G4 24 FHD Monitor	1A7E5AA
HP P24q G4 QHD Height Adjust Monitor	8MB10AA
HP P24v G4 Monitor	9TT78AA
HP P27h G4 FHD Monitor	7VH95AA
HP P27q G4 QHD Height Adjust Monitor	8MB11AA
HP P27v G4 Monitor	9TT20AA

Z Displays

HP DreamColor Z31x Studio Display	Z4Y82A4
HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z32 31.5-inch 4K UHD Display	1AA81A4
HP Z38c 37.5-inch Curved Display	Z4W65A4
HP Z43 42.5-inch 4K UHD Display	1AA85A4

E-Series

HP E14 G4 Portable Monitor	1B065AA
HP E22 G4 FHD Monitor	9VH72AA
HP E23 G4 FHD Monitor	9VF96AA
HP E24 G4 FHD Monitor	9VF99AA

HP E24d G4 FHD USB-C Docking Monitor	6PA50AA	obsolete
HP E24i G4 WUXGA Monitor	9VJ40AA	
HP E24mv G4 FHD Conferencing Monitor	169L0AA	
HP E24q G4 QHD Monitor	9VG12AA	
HP E24t G4 FHD Touch Monitor	9VH85AA	
HP E24u G4 FHD USB-C Monitor	189T0AA	
HP E27 G4 FHD Monitor	9VG71AA	
HP E27d G4 QHD USB-C Docking Monitor	6PA56AA	obsolete
HP E27q G4 QHD Monitor	9VG82AA	
HP E27u G4 QHD USB-C Monitor	189T3AA	

EliteDisplays

HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA
HP EliteDisplay E243m 60.45 cm (23.8") Monitor	1FH48AA
HP EliteDisplay E273m 68.58 cm (27") Monitor	1FH51AA

Healthcare Edition Displays

HP Healthcare Edition HC241 Clinical Review Monitor	3ME68AA
HP Healthcare Edition HC241p Clinical Review Monitor	3ME69AA

ProDisplays

HP Mini-in-One 24 Display	7AX23AA
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