

Informacije o proizvodu (EN)

HP laptop 470 G10 (8A4X8EA)



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

https://tehnoteka.rs/p/hp-laptop-470-g10-8a4x8ea-akcija-cena/

Overview

HP 470 G10 17 inch Notebook PC



Left

- 1. Internal Microphone (2)
- 2. Webcam
- 3. Camera Shutter
- 4. Webcam LED
- 5. Clickpad

- 6. Audio Combo Jack
- **7.** SuperSpeed USB Type-C® 5Gbps signaling rate (Data Transfer Only)
- 8. HDMI Port (Cable Sold Separately)
- SuperSpeed USB Type-A 5Gbps signaling rate1 port (USB 3.2 Gen 1)

Overview



Right

- 1. Power Button
- 2. Speakers
- 3. Power Connector
- **4.** SuperSpeed USB Type-A 5Gbps signaling rate1 port (USB 3.2 Gen 1)
- 5. Hard Drive LED
- 6. Power LED
- 7. Fingerprint Sensor(Optional)

Overview

At a Glance

- Preinstalled with Windows 11 Pro, Windows Home or FreeDOS
- Choice of 13th generation Intel[®] Core[™] i7, i5 and i3 processors
- NVIDIA® GeForce® MX550 (2 GB GDDR6 dedicated) (Optional)
- Fast dual channel DDR4 SODIMM memory up to 32 GB
- Choice of 17.3" diagonal HD, Ultra Wide Viewing Angle FHD, Non-Touch screen
- Full size, optional backlit keyboard and clickpad with Precision Touchpad Supported certified
- Choice of solid state drives up to 1TB
- fTPM2.0, Touch Fingerprint reader
- Supports wireless options for connectivity on the go including gigabit-data rate Wi-Fi 6
- Optimize your video calls with an HD camera and temporal noise reduction that adjusts the lighting to your environment.

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



Technical Specifications

PRODUCT NAME

HP 470 G10 17 inch Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 11 Pro ¹

Windows 11 Pro Education¹

Windows 11 Home – HP recommends Windows 11 Pro for business 1

Windows 11 Home Single Language – HP recommends Windows 11 Pro for business^{1,2}

FreeDOS

- 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.
- 2. This computer is preinstalled with Windows 11 Home Single Language.

PROCESSORS

	Number Number		L3	Max Turbo Frequency		Base Frequency				
Processor 3,4,5,6	Cores	of P-cores	of E-cores	Threads	Threads	Threads Cache	P-cores	E-cores	P-cores	E-cores
Intel® Core™ i7-1355U	10	2	8	12	12 MB	5.0 GHz	3.7 GHz	1.7 GHz	1.2 GHz	
Intel® Core™ i5-1335U	10	2	8	12	12 MB	4.6 GHz	3.4 GHz	1.3 GHz	0.9 GHz	
Intel® Core™ i3-1315U	6	2	4	8	10 MB	4.5 GHz	3.3 GHz	1.2 GHz	0.9 GHz	

- 3. 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.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 5. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
- 6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.



CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics 7,8 Intel® UHD Graphics8

Discrete

NVIDIA® GeForce® MX550 (2 GB DDR6 dedicated) 9

Supports

Support HD decode, DX12, HDMI 1.4b 8

- 7. Intel® Iris® Xº Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xº Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.
- 8. HD content required to view HD images.
- 9. Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

DISPLAY

Non-Touch

43.9 cm (17.3") diagonal FHD (1920 x 1080), Anti-Glare WLED UWVA, 300 nits, 72% UWVA eDP 1.4+PSR2 slim 60Hz Narrow Bezel 8,10,11

Display Size (Diagonal)

17.3"

43.9 cm (17.3")

- 8. HD content required to view HD images.
- 10. Sold separately or as an optional feature.
- 11. Resolutions are dependent upon monitor capability, and resolution and color depth settings.



Technical Specifications

STORAGE AND DRIVES

Primary M.2 Storage

1 TB PCIe® NVMe™ M.2 SSD ¹² 512 GB PCIe® NVMe™ M.2 SSD ¹² 256 GB PCIe® NVMe™ M.2 SSD ¹²

Dual Storage (select models)

256 GB PCIe® NVMe™ M.2 QLC Solid State Drive + 1TB 5400rpm SATA 512 GB PCIe® NVMe™ M.2 QLC Solid State Drive + 1TB 5400rpm SATA

12. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

MEMORY

Maximum Memory

32 GB DDR4-3200 SDRAM 13

Memory

32 GB DDR4-3200 SDRAM (2 x 16 GB) ¹³
16 GB DDR4-3200 SDRAM (1 x 16 GB) ¹³
16 GB DDR4-3200 SDRAM (2 x 8 GB) ¹³
12 GB DDR4-3200 SDRAM (1 x 8 + 1 x 4GB) ¹³
8 GB DDR4-3200 SDRAM (1 x 8 GB) ¹³

Memory Slots

2 SODIMM14

Both slots are customer non-accessible / non-upgradeable Supports Dual Channel Memory

- 13. All slots are non-accessible / non-upgradeable.
- 14. 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.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Realtek 8852BE (2X2) Wi-Fi® 6 Bluetooth® 5.3 WW WLAN Wireless Card 15

15. 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.

AUDIO/MULTIMEDIA

Audio

Dual Speakers Integrated dual array microphone

Speaker Power

2W/4ohm Per speaker

Camera

720p HD camera with Temporal Noise Reduction 8

8. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Island-style ash silver backlit keyboard with numeric keypad and touchpad with image sensor ¹⁶ Island-style ash silver keyboard with numeric keypad and Touchpad with image sensor

Pointing Device

Touchpad with multi-touch gesture support

Function Keys

ESC

F1 - help

F2 - Brightness Down

F3 - Brightness Up

F4 - Backlight Toggle

F5 - Audio Mute

F6 - Volume Down

F7 - Volume Up

F8 - Plays the previous track of an audio CD or the previous section of a DVD or a Blu-ray Disc (BD).

F9 - Starts, pauses, or resumes playback of an audio CD, a DVD, or a BD

F10 - Plays the next track of an audio CD or the next section of a DVD or a BD

F11 - Display Switching

F12 - Insert

16. Backlit keyboard is an optional feature.



Technical Specifications

SOFTWARE AND SECURITY

Software

HP Smart Health 17

ENERGY STAR® UWP (Universal Windows Platform for Windows)

Express VPN

Microsoft Office (Microsoft office sold separately. Internet access required for activation)

WPS Office

Dropbox Promotion 18

HP OuickDrop¹⁹

E-QR Code

sMedio True DVD for HP

Manageability Features

HP SSRM (HP Support Sent Recovery Media) ²⁰ Windows Push Button Reset Recovery²¹

Security Management

McAfee® LiveSafe™ 22

17. HP Smart Health requires HP TechPulse, a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements, please visit http://www.hpdaas.com/requirements. Purchase of any HP TechPulse-enabled service necessitates enabling software to run on each device. HP Services Scan is provided thru Windows Update 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. To disable this feature, please follow the instructions at http://www.hpdaas.com/requirements.

18. 100 GB of free Dropbox storage for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at https://www.dropbox.com/help/space/hp-promotion . Internet service required and not included.

19. HP Quick Drop requires Internet access and Windows 10 and 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.

- 20. Sold separately or as an optional feature.
- 21. Must activate within 180 days of Windows activation.
- 22. 30-day McAfee® LiveSafe™ trial included. Internet access required and not included. Subscription required after expiration. See http://www.McAfee.com for more details.



POWER

Power Supply

HP Smart 65 W EM External AC power adapter²³ HP Smart 45 W External AC power adapter ²³

Battery

HP Long Life 3-cell, 41 Wh Li-ion Polymer 24,25

Power Cord

1M (3.28 feet) length power cord

Battery Life

Up to 8 hours and 4 minutes with 41Whr battery (HP Long Life 3-Cell, 41 Whr Polymer, UMA graphics, Intel U15, display set to 200 nits, 8GB memory, 256GB SSD) ²⁶

Battery Weight

0.38lb

175g +/-10g

- 23. Availability may vary by country.
- 24. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 25. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- 26. MM18 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.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 4.6 lb ²⁷ Starting at 2.08 kg²⁷

Product Dimensions (W x D x H)

15.77 x 10.14 x 0.78 in 40.07 x 25.78 x 1.99 cm

Packaging Dimensions (W x D x H) 28

16"-17" boxes (345mm height): 1200mm x 1000mm x 1200mm

- 27. Weight will vary by configuration. Does not include power adapter.
- 28. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.



Technical Specifications

PORTS/SLOTS

- 2 SuperSpeed USB Type-A 5Gbps signaling rate
- 1 HDMI 1.4 29
- 1 SuperSpeed USB Type-C[®] 5Gbps signaling rate (Supports data transfer only and does not support charging or external monitors)
- 1 AC power
- 1 Headphone/microphone combo jack

Expansion Slots

Push-Pull Insertion/Removal

29. HDMI cable sold separately

SERVICE AND SUPPORT

1-year and 3-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. 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.³⁰

30. HP Care Packs are sold separately. Service levels and response ties 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 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.



SYSTEM UNIT

Stand-Alone Power Requirements

(AC Power)

Nominal Operating Voltage 19.5 V Average Operating Power 7.69W Integrated graphics Yes

Discrete Graphics N/A (Switchable graphics design)

Max Operating Power Discrete < 65W

UMA < 45W

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

Non-operating 5% to 95%

Shock

Operating 40 G, 2 ms, half-sine Non-operating 200 G, 2 ms, half-sine

Random Vibration

Operating 1.043 grams
Non-operating 3.5 grams

Altitude (unpressurized)

Operating -50 to 10,000 ft (-15.24 to 3,048 m)
Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard

Certifications

Regulatory Model Number TPN-I139
CSA/UL 62368-1 Yes
ENERGY STAR® Certified 31

EPEAT® Gold in the United States 32

FCC/ICES/CISPR/VCCI Yes
CE MARKING Yes
GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes **Ukraine NSoC/TEC** Yes EAEU Compliance Yes Saudi Arabian Compliance Yes TC0 No **WW RoHS** Yes Low Blue Light Yes

31. Configurations of the HP 470 G10 17 inch Notebook PC that are ENERGY STAR® qualified are identified as HP 470 G10 17 inch Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov.



32. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View.

NOTE: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

17.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 300nits eDP 1.2 w/o PSR slim 60Hz NWBZ

 Outline Dimensions (W x H x D)
 390.190 x 238.810 (max.)

 Active Area
 381.888 x 214.812 (typ.)

Weight 510 g(max)
Diagonal Size 17.3 (inch)
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio 1000:1 (typ)

Refresh Rate 60Hz
Brightness 300nits 1

Pixel Resolution - Format 1920 x 1080 (FHD)

BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC72%Color Depth8bits

Viewing Angle UWVA 85/85/85

Low Blue Light No

Power Consumption (W, EBL@ 3.2 (max)/3.64 (max) 150nits max/ 200nits max)



STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

5400rpm

500 GB 5400 rpm SATA Hard Rotation speed

Drive

Cache BufferUp to 128MBInterfaceATA-8, SATA 3.0

Transfer Rate 600MB/s

Seek Time Single Track: 1.5ms

Average: 13ms Maximum: 32ms

Logical Blocks 976,773,168
Security Features ATA Security

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

1TB 5400 rpm SATA Hard

Drive

Rotation speed 5400rpm **Cache Buffer** Up to 128MB

NAND Type/Size N/A

Interface ATA-8, SATA 3.0 Transfer Rate 600MB/s

Seek Time Single Track: 1.5ms

Average: 13ms Maximum: 32ms

Logical Blocks 1,953,525,168
Security Features ATA Security

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

2TB 5400 rpm SATA Hard

Drive

Rotation speed 5400rpm

Cache Buffer Up to 128MB

Interface ATA-8, SATA 3.0

Transfer Rate 600MB/s

Seek Time Single Track: 1.5ms

Agerage: 13ms Maximum: 32ms 3,907,029,168

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

SSD 1TB 2280 PCIe NVMe QLC (1TB 2280 PCIe NVMe

OLC 2nd Solid State

Drive)

Form Factor M.2 2280
Capacity 1TB
NAND Type QLC

Logical Blocks

InterfacePCIe NVMeLogical Blocks2,000,409,264

Features Pyrite

Technical Specifications

SSD 256GB 2280 PCIe
NVMe QLC (SSD 256GB
2280 PCIe NVMe QLC)

Form Factor M.2 2280
Capacity 256GB
NAND Type QLC
Interface PCIe NVMe

InterfacePCIe NVMeLogical Blocks500,118,192FeaturesPyrite

SSD 512GB 2280 PCIe NVMe QLC Form Factor M.2 2280
Capacity 512GB
NAND Type QLC

 Weight
 0.02 lb (10 g)

 Interface
 PCIe NVMe

 Logical Blocks
 1,000,215,216

Features Pyrite



NETWORKING/COMMUNICATIONS

Realtek RTL8852BE 802.11ax 2x2 Wi-Fi + Bluetooth® 5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate) ¹ Wireless LAN Standards IEEE 802.11a
IEEE 802.11b
IEEE 802.11g

IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac
IEEE 802.11ax

IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v

Interoperability Wi-Fi certified modules

Frequency Band •802.11b/g/n/ax

2.402 – 2.482 GHz •802.11a/n/ac/ax 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

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

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

802.11n: max 300Mbps
802.11ac: max 866.7Mbps
802.11ax: max 1201Mbps

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM

Security²
• IEEE and WiFi certified 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 certificationWPA3 certificationIEEE 802.11iWAPI

Network Architecture

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power³ • 802.11b: +18.5dBm minimum

802.11g: +17.5dBm minimum
802.11a: +18.5dBm minimum

• 802.11n HT20(2.4GHz): +15.5dBm minimum



802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum
802.11n HT40(5GHz): +14.5dBm minimum
802.11ac VHT80(5GHz): +11.5dBm minimum
802.11ax HE40(2.4GHz): +10dBm minimum

• 802.11ax HE80(5GHz): +10dBm minimum

Power Consumption • Transmit mode :2.5 W

• Receive mode: 2 W

Idle mode (PSP) 180 mW (WLAN Associated)
Idle mode :50 mW (WLAN unassociated)
Connected Standby/Modern Standby: 10mW

Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

•802.11ax, MCS11(HE40): -57dBm maximum •802.11ax, MCS11(HE80): -54dBm 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 communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard

Dimensions 1. Type 2230 : 2.3 x 22.0 x 30.0 mm

2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230 : 2.8g

2. Type 126: 1.3g

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)

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

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

LED Activity LED Amber – Radio OFF;

LED OFF - Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1 Compliant/5.2 Compliant/5.3 Compliant

Frequency Band 2402 to 2480 MHz



Technical Specifications

Number of Available Legacy : 0~79 (1 MHz/CH)
Channels BLE : 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

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.

1. Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.

- 2. Check latest software/driver release for updates on supported security features.
- 3. 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.
- 4. 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).



POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors

HP 65W Smart AC adapter Dimensions (H x W x D) 3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm)

> Weight 0.55 lb (250 g) max

(Not including power cord. Power cord varies by country.)

Input 100-240Vac

> **Input Efficiency** 88 % at 115 Vac and 89 % at 230Vac

Input frequency range 47-63 Hz

Max. 1.7 A at 90 Vac **Input AC current**

Output **Output power** 65W

> 19.5V DC output

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit < 11.0A

Connector 4.5mm Barrel Type

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

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

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

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

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

EN62368-1:2014+A11. UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

HP 45W Smart AC adapter Dimensions (H x W x D) 3.74 x 1.772 x 1.043 in (9.5x4.5x2.65cm)

> Weight 0.44 lb (200 g) max (Not including power cord. Power cord varies by

> > country.)

Input 100-240Vac

> 87.74 % at 115 Vac and 88.4 % at 230 Vac **Input Efficiency**

Input frequency range 47-63 Hz

Max. 1.4 A at 90 Vac **Input AC current**

Output **Output power** 45W

> DC output 19.5V

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit < 8.0A

Connector 4.5mm Barrel Type

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

temperature

Non-operating (storage) -4°F to 185°F (-20°to 85°C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

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

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

Certifications Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

HP 3-cell Long Life Li-Ion Weight (41 Wh)¹

Weight 0.185 kg (0.407 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 515974

Energy Voltage 11.25V

Amp-hour capacity 3.648Ah Watt-hour capacity 41.04Wh

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

Operating (Discharging) 14° to 122° F (-10° to 60° C)

Optional Travel Battery N

Available

AUDIO

HD Stereo Codec Realtek ALC3247

Audio I/O PortsOne Headset Combo-Jack connector support CTIA spec.

Internal Speaker Amplifier 2W class D stereo amplifier for the internal speaker only. External speakers must be powered.

Multi-streaming Capable Playback multi-streaming can be enabled in the audio control panel to allow independent audio

streams to be sent to/from the Combo jack or integrated speaker.

Sampling Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1

kHz to 48 kHz for DAC and ADC.

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes. # of Channels on Line-Out 0 Internal Speaker Yes

FINGERPRINT READER

Sensor vendor Elan eFSA80ST touch sensor

Sensor type Capacitive DPI resolution 508 DPI

Scan area 80 x 80 pixels array

False Rejection Rate FRR (False Reject Rate) / FAR (False Acceptance Rate):

FRR ~ 2% @ 1:50K FAR

False Acceptance Rate

Mobile Voltage Operation 2.65V to 3.6V

Operating Temperature 32° to 95° F (0° to 35° C)

Current Consumption 50mA peak

Image

Low Latency Wait For <900 uA

Finger

Capture Rate 20cm/sec

ESD Resistance IEC 61000-4-2 (+15KV)

Detection Matrix 508 dpi / 4x4mm sensor area

Technical Specifications

ENVIRONMENTAL DAT	A					
Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may be					
& declarations	labeled with one or more o	of these marks:				
	 IT ECO declaration 	n				
	US ENERGY STAR	B				
	 US Federal Energy 	y Management Program (FEN	1P)			
	 EPEAT® Gold registered in the United States. See http://www.epeat.net for registr status in your country. 					
	 China Energy Con 	servation Program (CECP)				
	China State Environment	onmental Protection Adminis	tration (SEPA)			
	Taiwan Green Mar	rk				
	 Korea Eco-label 					
	Japan PC Green label*					
Sustainable Impact	• Low halogen					
Specifications	Outside Box and corruga	ted cushions are 100% susta	inably sourced and recyclable			
	Molded Paper Pulp Cushi	on inside box is 100% sustai	nably sourced and recyclable			
	Bulk packaging available	!				
System Configuration	The configuration used for	r the Energy Consumption an	d Declared Noise Emissions data for the			
Jyssem semigaranon	_	on a "Typically Configured No				
		,, , ,				
Energy Consumption						
(in accordance with US						
ENERGY STAR® test						
4	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
method)	1134110, 00112	230VAC, 30112	1001110,00111			
Normal Operation (Sort	9.5 W	9.47 W	10.85 W			
	· ·					
Normal Operation (Sort	· ·					
Normal Operation (Sort idle)	9.5 W 0.93 W	9.47 W 1.09 W	10.85 W			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W	9.47 W 1.09 W 1.09 W	10.85 W			
Normal Operation (Sort idle) Normal Operation (Long idle)	9.5 W 0.93 W	9.47 W 1.09 W	10.85 W 0.94 W			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W	9.47 W 1.09 W 1.09 W	10.85 W 0.94 W 0.94 W			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W	9.47 W 1.09 W 1.09 W 0.34 W	10.85 W 0.94 W 0.94 W 0.3 W			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data liste	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® co	10.85 W 0.94 W 0.3 W ompliant product if offered within the model			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data lister family. HP computers mar	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® co	10.85 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S.			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.32 W NOTE: Energy efficiency data listofamily. HP computers mar Environmental Protection	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR®	0.94 W 0.94 W 0.3 W Ompliant product if offered within the model Logo are compliant with the applicable U.S. Pospecifications for computers. If a model			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data liste family. HP computers mar Environmental Protection family does not offer ENER	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR®	0.94 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model grations, then energy efficiency data listed is			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured F	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configuency featuring a hard disk drive	0.94 W 0.94 W 0.3 W Ompliant product if offered within the model Logo are compliant with the applicable U.S. Pospecifications for computers. If a model			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data liste family. HP computers mar Environmental Protection family does not offer ENER	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configuency featuring a hard disk drive	0.94 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model grations, then energy efficiency data listed is			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data lister family. HP computers mar Environmental Protection family does not offer ENER for a typically configured Microsoft Windows® operations.	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configuency featuring a hard disk driventing system.	0.94 W 0.94 W 0.3 W Ompliant product if offered within the model Logo are compliant with the applicable U.S. Specifications for computers. If a model urations, then energy efficiency data listed is , a high efficiency power supply, and a			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation*	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured F	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configuency featuring a hard disk drive	0.94 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model grations, then energy efficiency data listed is			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data lister family. HP computers mare Environmental Protection family does not offer ENEF for a typically configured For a typic	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configured featuring a hard disk drive sting system.	0.94 W 0.94 W 0.3 W Ompliant product if offered within the model Logo are compliant with the applicable U.S. Pospecifications for computers. If a model arations, then energy efficiency data listed is , a high efficiency power supply, and a			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle)	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data lister family. HP computers mar Environmental Protection family does not offer ENER for a typically configured Microsoft Windows® operations.	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configuency featuring a hard disk driventing system.	0.94 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model urations, then energy efficiency data listed is , a high efficiency power supply, and a			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured F Microsoft Windows® operations of the computer of the computers of the computers of the computer of	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configured featuring a hard disk drive ating system. 230VAC, 50Hz 32.4 BTU/hr	10.85 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. especifications for computers. If a model arations, then energy efficiency data listed is , a high efficiency power supply, and a 100VAC, 50Hz 37.1 BTU/hr			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle)	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data lister family. HP computers mare Environmental Protection family does not offer ENEF for a typically configured For a typic	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configured featuring a hard disk drive ating system. 230VAC, 50Hz 32.4 BTU/hr 3.7 BTU/hr	10.85 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. specifications for computers. If a model arations, then energy efficiency data listed is , a high efficiency power supply, and a 100VAC, 50Hz 37.1 BTU/hr			
Normal Operation (Sort idle) Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long	9.5 W 0.93 W 0.93 W 0.32 W NOTE: Energy efficiency data list family. HP computers mar Environmental Protection family does not offer ENER for a typically configured F Microsoft Windows® operations of the computer of the computers of the computers of the computer of	9.47 W 1.09 W 1.09 W 0.34 W ed is for an ENERGY STAR® coked with the ENERGY STAR® Agency (EPA) ENERGY STAR® RGY STAR® compliant configured featuring a hard disk drive ating system. 230VAC, 50Hz 32.4 BTU/hr	10.85 W 0.94 W 0.3 W ompliant product if offered within the model Logo are compliant with the applicable U.S. especifications for computers. If a model arations, then energy efficiency data listed is , a high efficiency power supply, and a 100VAC, 50Hz 37.1 BTU/hr			



Technical Specifications

	*NOTE: Heat	dissipation is calculated ba	sed on the measured watts, a	ssuming the service level is		
	attained for one hour.					
Declared Noise		Sound Power	Sound	l Pressure		
Emissions	(L _{WAd} , bels)			(L _{pAm} , decibels)		
(in accordance with						
ISO 7779 and ISO 9296)						
Typically Configured –		2.2 21.8				
Idle						
Fixed Disk – Random		2.2		22.2		
writes						
Optical Drive – Sequential reads	N/A N/A			N/A		
Longevity and Upgrading	This product	can be upgraded, possibly	extending its useful life by sev	eral years. Upgradeable		
	features and/or components contained in the					
Additional Information	production. • This			p to "5" years after the end of ous Substances (RoHS) directive		
	 This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 95.1% recycle-able when properly disposed of at end of life. 					
Packaging Materials	External:	PAPER/Corrugated		275 g		
		PAPER/Corrugated		51 g		
		PAPER/Molded Pulp		101 g		
	Internal:	PLASTIC/Polyethylene lo	w density - LDPF	17 g		
	PLASTIC/Polypropylene - PP			5 g		
	The plastic packaging material contains at least 0.0% recycled content.					
	The corrugated paper packaging materials contains at least 55.6% recycled content.					
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.					



Technical Specifications

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	We met our voluntary objective to achieve worldwide compliance with the new EU RoHS
	requirements for virtually all relevant products by July 2013, and we will continue to extend the
	scope of the commitment to include further restricted substances as regulations continue to evolve.
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):
	Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (DBP) Dibutyl phthalate (DBP) Dibutyl phthalate (DBP) Disobutyl phthalate (DBP) Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
	 Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic.

COUNTRY OF ORIGIN

China



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

Туре	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
Cases	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 155 Wired Mouse and Keyboard Combo	5B8C0AA#ACJ
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA#AB2
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
Mouse	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 155 USB-A Wired Mouse	5B8B7AA#ACJ
	HP 320M USB-A Wired Mouse	9VA80AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
	HP USB Premium Wireless Mouse	1JR31AA
	HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse	3B4Q5AA
Power	HP 65W 4.5 mm Smart AC Power Adapter	Н6Ү89АА
Commodity	HP USB DVD-Writer EXT ODD	F2B56AA
Video	HP 325 FHD USB-A Webcam	53X27AA



Change Log

Date of change:	Version History:		Description of change:
August 1, 2023	V1 to V2	Added	Environmental Data, updated Overview section
	V2 to V3		

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

https://tehnoteka.rs/p/hp-laptop-470-g10-8a4x8ea-akcija-cena/