#### **Overview**

HP 255 G7 Notebook PC



- 1. Webcam LED
- 2. Webcam
- 3. Internal microphone
- 4. Touchpad
- 5. Touchpad button
- 6. Audio combo jack

#### Left

- 7. USB 3.1 Gen 1 port
- 8. USB 3.1 Gen 1 port
- 9. HDMI port (Cable not included)
- 10. RJ-45/Ethernet port
- 11. AC Smart Pin adapter plug
- 12. Power button

### HP 255 G7 Notebook PC

#### **Overview**



- 1. Security lock slot (Lock sold separately)
- 2. Optical drive (optional)
- 3. USB 2.0 port

- Right
  - 4. SD Card slot
  - 5. Hard drive indicator LED
  - 6. Power indicator LED

#### **Overview**

### AT A GLANCE

- Preinstalled with Windows 10 versions or FreeDOS
- Choice of AMD Ryzen<sup>™</sup> processors
- 15.6" (39.6 cm) diagonal FHD/HD Anti-Glare Display
- Choice of Integrated AMD Radeon™ Vega 8 Mobile Graphics, AMD Radeon™ R4 Graphics, AMD Radeon™ R3 Graphics and AMD Radeon™ Graphics.
- Dark Ash Silver or Asteroid Silver color with texture pattern (Color options available in select countries)
- Up to 1TB Hard Drive or 256 GB M.2 PCIe Value Solid State Drive
- Weight starting at 1.78Kgs (3.91 lbs)
- Security features including FW TPM 2.0 and security lock slot (Lock not included)
- Keyboard Full size textured island-style keyboard with numeric pad
- Touchpad with gestures support
- HP webcam with single digital microphone and HD (supporting WDR- Wide Dynamic Range) or VGA camera
- Two USB 3.1 (Gen 1) ports and One USB 2.0 port
- Wireless LAN (WLAN) up to 802.11ac to keep you connected
- Battery Life up to 10 hours and 30 minutes

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

#### PRODUCT NAME

HP 255 G7 Notebook PC

#### **OPERATING SYSTEM**

Preinstalled OS Windows 10 Pro 64<sup>1</sup> Windows 10 Home 64<sup>1</sup> Windows 10 Home Single Language 64<sup>1</sup> Windows 10 Pro 64 (National Academic only)<sup>2</sup> 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 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/.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

#### PROCESSOR

AMD Ryzen™ 5 2500U APU with Radeon™ Vega 8 Graphics (2 GHz base frequency, up to 3.6 GHz burst frequency, 6 MB cache. 4 cores)<sup>3,4,5,26</sup> AMD Ryzen™ 3 2200U APU with Radeon™ Vega 3 Graphics (2.5 GHz base frequency, up to 3.4 GHz burst frequency, 5 MB cache, 2 cores)<sup>3,4,5,26</sup> AMD A9-9425 APU with Radeon™ R5 Graphics (3.1 GHz base frequency. up to 3.7 GHz burst frequency. 1 MB cache. 2 cores)<sup>3,4,5,26</sup> AMD A6-9225 APU with Radeon™ R4 Graphics (2.6 GHz base frequency, up to 3 GHz burst frequency, 1 MB cache, 2 cores)<sup>3,4,5</sup> AMD A4-9125 APU with Radeon™ R3 Graphics (2.3 GHz base frequency, up to 2.6 GHz burst frequency, 1 MB cache, 2 cores)<sup>3,4,5</sup> AMD Ryzen™ 5 3500U APU with Radeon™ Vega 8 Mobile Graphics (2.1 GHz base frequency, up to 3.7 GHz burst frequency, 4 MB cache. 4 cores)<sup>3,4,5</sup> AMD Ryzen™ 3 3250U APU with Radeon™ Graphics (2.6 GHz base frequency, up to 3.5 GHz burst frequency, 1 MB cache, 2 cores)<sup>3,4,5</sup> AMD Athlon™ Gold 3150U APU with Radeon™ Graphics (2.4 GHz base frequency, up to 3.3 GHz burst frequency, 1 MB cache, 2 cores)<sup>3,4,5</sup> AMD Athlon™ Silver 3050U APU with Radeon™ Graphics (2.3 GHz base frequency, up to 3.2 GHz burst frequency, 1 MB cache, 2 cores)<sup>3,4,5</sup>

Processor Family AMD Ryzen™ 5 Mobile Processors<sup>5</sup> AMD Ryzen™ 3 Mobile Processors<sup>5,26</sup> AMD Athlon™ Mobile Processors<sup>5</sup> 7th Generation AMD A9 APU processor (A9-9425) <sup>5,26</sup> 7th Generation AMD A6 APU processor (A6-9225) <sup>5</sup> 7th Generation AMD A4 APU processor (A4-9125)<sup>5</sup>

3. 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. AMD's numbering, branding and/or naming is not a measurement of clock speed.

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

5. 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.

26. Not available on Aug 1st 2020

#### CHIPSET

Chipset is integrated with processor

#### GRAPHICS

Integrated AMD Radeon Vega 8 Mobile Graphics AMD Radeon Vega 3 Mobile Graphics<sup>26</sup> AMD Radeon™ R5 Graphics<sup>26</sup> AMD Radeon™ R4 Graphics AMD Radeon™ R3 Graphics

Supports
Support HD decode, DX12, HDMI 1.4b<sup>6</sup>

6. HDMI cable sold separately. 26. Not available on Aug 1st 2020

#### DISPLAY

Internal Non-Touch 39.6 cm (15.6") diagonal HD SVA eDP anti-glare WLED-backlit slim, 220 cd/m<sup>2</sup>, 67% sRGB (1366 x 768)<sup>7,8,27</sup> 39.6 cm (15.6") diagonal FHD SVA eDP anti-glare WLED-backlit slim, 220 cd/m<sup>2</sup>, 67% sRGB (1920 x 1080) <sup>7,8,27</sup>

HDMI

Port supports resolutions up to 1920 x 1200 external resolution @60 Hz

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



#### STORAGE AND DRIVES

Primary Storage 1 TB 5400 rpm SATA<sup>9</sup> 500 GB 7200 rpm SATA<sup>9</sup> 500 GB 5400 rpm SATA<sup>9</sup>

Primary M.2 Storage 128 GB SATA-3 TLC Solid State Drive<sup>9</sup> 256 GB SATA-3 TLC Solid State Drive<sup>9</sup> 256 GB PCIe Gen3x4 NVMe Value Solid State Drive<sup>9</sup> 512 GB PCIe Gen3x4 NVMe Value Solid State Drive<sup>9</sup>

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

#### MEMORY

Maximum Memory 16 GB DDR4-2400 SDRAM<sup>10</sup> 8 GB DDR4-1866 SDRAM<sup>10</sup>

Memory 16 GB DDR4-2400 SDRAM (2 x 8 GB)<sup>10</sup> 8 GB DDR4-2400 SDRAM (1 x 8 GB) 8 GB DDR4-2400 SDRAM (2 x 4 GB)<sup>10</sup> 4 GB DDR4-2400 SDRAM (1 x 4 GB) 8 GB DDR4-1866 SDRAM (1 x 4 GB) 8 GB DDR4-1866 SDRAM (2 X 4 GB)<sup>10</sup>

Memory Slots 2 SODIMM (AMD Ryzen™ Mobile Processors) DDR4 PC4 SODIMMS, system runs at 2400 Supports Dual Channel Memory<sup>11</sup> Both slots are customer non-accessible / non-upgradeable

1 SODIMM (7<sup>th</sup> Generation AMD APU processor and Athlon™ Mobile Processors) DDR4 PC4 SODIMMS, system runs at 1866 All slots are customer non-accessible / non-upgradeable

10. 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. 11.Dual channel memory support only for AMD Ryzen™ APU processors.

### NETWORKING/COMMUNICATIONS

WLAN

Realtek 802.11ac (1x1) and Bluetooth® 4.2 Combo<sup>12</sup> Realtek 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo (MU-MIMO supported)<sup>12</sup>

hp

Miracast Compatible with Miracast-certified devices<sup>13</sup>

Ethernet
Integrated 10/100/1000 GbE NIC

12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
 13. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

### AUDIO/MULTIMEDIA

Audio
2 Integrated stereo speakers

Camera HP TrueVision HD Camera<sup>7,14</sup>

Webcam VGA webcam<sup>14</sup> Optical Drive Optional DVD-Writer<sup>15,16</sup>

7. HD content required to view HD images.
14. Sold separately or as an optional feature.
15. Unit shipped with either "DVD+/-RW SuperMulti DL" or "DVD Writer Drive." Units undergoing repairs may be returned with a "DVD+/-RW SuperMulti DL."
16. HD-DVD disks cannot be played on this drive. No support for DVDRAM. 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.

### **KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS**

Keyboard

Keyboard - Full size textured island-style keyboard with numeric pad

Pointing Device Touchpad with multi-touch gesture support

Function Keys

- F1 Open " How to get help in Windows 10" webpage
- F2 Brightness Down
- F3 Brightness Up
- F4 Display Switching
- F5 Blank
- F6 Mute
- F7 Volume Down
- F8 -Volume Up
- F9 Previous
- F10 Play/Pause

F11 - Next F12 - Airplane mode

### SOFTWARE AND SECURITY

**Preinstalled Software** 

HP JumpStarts HP Documentation HP Setup Integrated OOBE SSRM is provided via SSRU/SSRD format, also can be download from Cloud. But it's not default preinstalled in image. HP Audio Switch HP Support Assistant<sup>17</sup> McAfee LiveSafe™

Security Management TPM 2.0<sup>18</sup> Security lock slot (Lock sold separately)

17. HP Support Assistant requires Windows and Internet access. 18. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT). TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

#### POWER

Power Supply 65 W EM Smart AC adapter<sup>19</sup> 45 W Smart AC adapter<sup>19</sup>

Primary Battery 3-cell, 41 Wh Li-ion Battery<sup>20</sup>

Power Cord 1M (3.28 feet) length power cord<sup>19</sup>

Battery Life **Up to 10 hours and 30 minutes hrs<sup>21</sup>** 

Battery Weight 0.18 kg 0.39 lb

Availability may vary by country.
 Battery is internal and not replaceable by customer. Serviceable by warranty.



21. Windows 10 MM14 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 http://www.bapco.com for additional details.

#### WEIGHTS & DIMENSIONS

Product Weight Starting at 3.91 lbs<sup>22</sup> Starting at 1.78 kgs<sup>22</sup>

Product Dimensions (w x d x h) 14.8 x 9.68 x 0.89 in 37.6 x 24.6 x 2.25 cm

22. Weight will vary by configuration.

#### PORTS/SLOTS

Ports 2 USB 3.1 Gen 1 1 USB 2.0 1 HDMI v1.4b<sup>6</sup> 1 RJ-45 1 AC power 1 Headphone/microphone combo jack

Expansion Slots 1 multi-format digital media reader Supports SD, SDHC, SDXC

6. HDMI cable sold separately.

### SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. 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.<sup>23</sup>

23. 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.





### SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	
Nominal Operating Voltage	19.5 V
Average Operating Power	Win 10
Integrated graphics	6.87W
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 duration, half-sine
Non-operating	240 G, 2 ms duration, half-sine
Random Vibration	
Operating	1.043 grms
Non-operating	3.5 grms
Planned Industry Standard	
Certifications	
UL	Yes
CSA	No
FCC Compliance	Yes
ENERGY STAR®	Yes <sup>24</sup>
EPEAT <sup>®</sup> 2019	Yes, Silver in U.S. <sup>25</sup>
ICES	Yes
Australia /	Yes
NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	Yes
КС	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	Yes
CIT	Yes
GOST	Yes
Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes
UKRSERTCOMPUTER	Yes

24. Configurations of the HP 255 G7 that are ENERGY STAR<sup>®</sup> certified are identified as HP 255 G7 ENERGY STAR on HP websites and on http://www.energystar.gov.

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

#### DISPLAYS

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

15.6" diagonal HD WLED AntiGlare (1366x768)	Outline Dimensions (W x H x D)	360 x 224.3 x 3.2 (max)	
slim-flat (3.2mm) SVA,	Active Area	344.2 x 193.5	
eDP	Weight	420 max.	
	Diagonal Size	15.6 (inch)	
	Thickness	3.2mm max	
	Interface	eDP 1.2 (1 lane)	
	Surface Treatment	Anti-glare (AG)	
	Touch Enabled	NO	
	Contrast Ratio	300:1 (typ)	
	Refresh Rate	60Hz	
	Brightness	220 nit typ	
	Pixel Resolution	Format	1366 x 768 (HD)
	PIXELRESOLULION	Configuration	RGB
	Backlight	LED	
	Color Gamut Coverage	45%	
	Color Depth	6 bits (Hi FRC)	
	Viewing Angle	SVA 40/40/15/30	
15.6" diagonal FHD WLED AntiGlare (1920x1080)	Outline Dimensions (W x H x D)	360.0 x 224.3mm max	
slim-flat (3.2mm) SVA,	Active Area	344.16 x 193.59	
eDP	Weight	370g max.	
	Diagonal Size	15.6 (inch)	
	Thickness	3.2mm max	
	Interface	eDP 1.2	
	Surface Treatment	Anti-glare (AG)	
	Touch Enabled	NO	
	Contrast Ratio	300:1 (typ)	
	Refresh Rate	60Hz	
	Brightness	220 nit typ	
	Pixel Resolution	Format	1920 x 1080 (FHD)

	Backlight Color Gamut Coverage Color Depth Viewing Angle	Configuration LED 45% 6 bits + FRC SVA 45/45/25/35	RGB
STORAGE AND DRIVES	5		
500 GB 5400 rpm SATA Dard Drive	Drive Weight Rotation speed Cache Buffer Height Width Interface Transfer Rate Seek Time	92g(0.20lb) 5400 rpm Up to 128MB 7.0 +/- 0.2 mm (0.28 +/- 69.85 +/- 0.25 mm (2.75 ATA-8, SATA 3.0 600 MB/s Single Track: 1.5 ms Average: 13 ms Maximum: 32ms 976,773,168	-
	Logical Blocks Operating Temperature	0° to 60°C	
	Security Features Features	ATA Security S.M.A.R.T., NCQ, Ultra D	MA
500 GB 7200 rpm SATA Hard Drive	Drive Weight Rotation speed Cache Buffer Height Width Interface Transfer Rate Seek Time Logical Blocks Operating Temperature Security Features Features	<95g (0.209lb) 7200 rpm Up to 128 MB 7.0 +/- 0.2 mm (0.28 +/- 69.85 +/- 0.25 mm (2.75 ATA-8, SATA 3.0 600 MB/s Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms 976,773,168 0° to 60°C ATA Security S.M.A.R.T., NCQ, Ultra D	i0 +/- 0.010 in)
1 TB 5400 rpm SATA Hard Drive	Drive Weight Rotation speed	90g(0.198lb) 5400 rpm	

### HP 255 G7 Notebook PC

	Cache Buffer Height Width Interface Transfer Rate	Up to 128MB 7.0 +/- 0.2 mm (0.28 +/008 in) 69.85 +/- 0.25 mm (2.750 +/- 0.010 in) ATA-8, SATA 3.0 600 MB/s
	Seek Time	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
	Logical Blocks	976,773,168
	Operating Temperature	0° to 60°C
	Security Features	ATA Security
	Features	S.M.A.R.T., NCQ, Ultra DMA
128 GB 2280 M2 SATA-3	Drive Weight	0.02 lb (10 g)
TLC Solid State Drive	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ATA-8, SATA 3.0
	Transfer Rate	550MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Security Features	ATA Security
	Features	DIPM; TRIM; DEVSLP
256 GB 2280 M2 SATA-3	Drive Weight	0.02 lb (10 g)
TLC Solid State Drive	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	ATA-8, SATA 3.0
	Transfer Rate	550MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Security Features	ATA Security
	Features	DIPM; TRIM; DEVSLP
256 GB 2280 M2 PCIe	Form Factor	M.2 2280
NVMe Value Solid State	Capacity	256 GB
Drive	NAND Type	TLC
	Height	0.09 in (2.3 mm)

Width	0.87 in (22 mm)
Weight	0.01 lb (6 g) ~ 0.02 lb (10 g)
Interface	PCIe NVMe Gen3x2
Maximum Sequential Read	Up To 1500 MB/s
Maximum Sequential Write	Up To 900 MB/s
Logical Blocks	500,118,192
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	TRIM; L1.2

### NETWORKING/COMMUNICATIONS WLAN

Realtek RTL8821CE 802.11ac 1x1 Wi-Fi® and Bluetooth® 4.2 Combo Adapter (MU-MIMO supported) <sup>1</sup>	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	•802.11b/g/n 2.402 – 2.482 GHz
		•802.11a/n 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: MCS 0 ~ MCS 15, (20MHz, and 40MHz) •802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security <sup>3</sup>	<ul> <li>IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>AES-CCMP: 128 bit in hardware</li> <li>802.1x authentication</li> <li>WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>WPA2 certification</li> <li>IEEE 802.11i</li> <li>Cisco Certified Extensions, all versions through CCX4 and CCX Lite</li> <li>WAPI</li> </ul>

### HP 255 G7 Notebook PC

Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power <sup>2</sup>	•802.11n HT40( •802.11n HT20( •802.11n HT20(	8m minimum
Power Consumption	•Idle mode: 50 n	(max) ): 180 mW (WLAN Associated) nW (WLAN unassociated) oy: 10 mW (WLAN+BT)
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	
Antenna type	enclosure Two embedded (	antenna with spatial diversity, mounted in the display dual band 2.4/5 GHz antennas are provided to the card N MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2	MiniCard
Dimensions	Туре 2230: 2.3 х	22.0 x 30.0 mm
Weight	Туре 2230: 2.8g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Rad LED White – Rad	



### HP 255 G7 Notebook PC

## QuickSpecs

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps signaling data rate up to 2.17 Mbps BLE: 1 Mbps signaling data rate 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. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

2. 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.

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

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).

Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® and Bluetooth® 5.01	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11h IEEE 802.11i IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	•802.11b/g/n 2.402 - 2.482 GHz •802.11a/n/ac 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: MCS 0 ~ MCS 15, (20MHz, and 40MHz) •802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security <sup>3</sup>	<ul> <li>IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only</li> <li>AES-CCMP: 128 bit in hardware</li> <li>802.1x authentication</li> <li>WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.</li> <li>WPA2 certification</li> <li>IEEE 802.11i</li> <li>WAPI</li> </ul>
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming Output Power <sup>2</sup>	IEEE 802.11 compliant roaming between access points • 802.11b: +18.5dBm minimum
	<ul> <li>802.11g: +17.5dBm minimum</li> <li>802.11g: +17.5dBm minimum</li> <li>802.11a: +18.5dBm minimum</li> <li>802.11n HT20(2.4GHz): +15.5dBm minimum</li> <li>802.11n HT40(2.4GHz): +14.5dBm minimum</li> <li>802.11n HT20(5GHz): +15.5dBm minimum</li> <li>802.11n HT40(5GHz): +14.5dBm minimum</li> <li>802.11ac VHT80(5GHz): +11.5dBm minimum</li> <li>802.11ac VHT160(5GHz): +11.5dBm minimum</li> </ul>
Power Consumption	•Transmit mode 2.0 W •Receive mode 1.6 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
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
Form Factor	PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	Туре 2230: 2.8 g Туре 126: 1.3 g
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 Activity	LED Amber – Radio OFF LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps Signaling Data Rate 2.17 Mbps BLE: 1 Mbps Signaling Data Rate 0.2 Mbps 1. Actual throughput may vary.
	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.
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported Link Topology	Microsoft Windows Bluetooth Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249

### HP 255 G7 Notebook PC

## QuickSpecs

Power Management	ETS 300 328, ETS 300 826
Certifications	Low Voltage Directive IEC950
	UL, CSA, and CE Mark
Bluetooth Profiles	BT4.1-ESR 5/6/7 Compliance
Supported	LE Link Layer Ping
	LE Dual Mode
	LE Link Layer
	LE Low Duty Cycle Directed Advertising
	LE L2CAP Connection Oriented Channels
	Train Nudging & Interlaced Scan
	BT4.2 ESR08 Compliance
	LE Secure Connection- Basic/Full
	LE Privacy 1.2 –Link Layer Privacy
	LE Privacy 1.2 –Extended Scanner Filter Policies
	LE Data Packet Length Extension
	FAX Profile (FAX)
	Basic Imaging Profile (BIP)2
	Headset Profile (HSP)
	Hands Free Profile (HFP)
	Advanced Audio Distribution Profile (A2DP)

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

2. 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.

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

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

(III)

HP 65 W Smart	Dimensions (H x W x D)	108 x 47 x 37.4 mm	
AC adapter	Weight	250 g Not including power cord. P	ower cord varies by country
	Input	100 to 240 VAC	
		Input Efficiency	88.0 % at 115 VAC and 89.0 % at 230VAC
		Input frequency range	50~ 60 Hz
		Input AC current	Max. 1.7 A at 90 VAC
	Output	Output power	65 W
		DC output	19.5 V
		Hold-up time	5 ms at 115 VAC input
		Output current limit	The power supply shall limit the maximum steady state output current to an average current of 11 Amperes.
	Connector	4.5 mm Barrel Type	
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	The power supply can be operated at 5,000 m above sea level
		Humidity	The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non-operating
	EMI and Safety Certifications	-	e with LVD and EMC directives lards - IEC60950, EN60950, UL60950, Class1,
		-	-US, NORDICS, DENAN, EN55022 Class B, FCC M-1 NYCE.
			ours at 25°C ambient condition.
45 W AC adapter	Dimensions (H x W x D)	95 x 40 x 26.5 mm	
	Weight	200 g	
45 W AC adapter	_	Not including power cord. Po	wer cord varies by country
	Input	100 to 240 VAC	
		Input Efficiency	87.8 % at 115 VAC and 88.5 % at 230VAC
		Input frequency range	50~ 60 Hz
		Input AC current	Max. 1.4 A at 90 VAC
	Output	Output power	45 W
		DC output	19.5 V
		Hold-up time	5ms at 115 VAC input
		Output current limit	The power supply shall limit the maximum steady state output current to an average current of 8 Amperes.
	Connector	4.5 mm Barrel Type	



(III)

	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)	
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	
		Altitude	The power supply can be operated at 5,000 m above sea level	
		Humidity	The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non- operating	
	EMI and Safety Certifications	-	with LVD and EMC directives ards - IEC60950, EN60950, UL60950, Class1,	
		-	IS, NORDICS, DENAN, EN55022 Class B, FCC	
		CISPR22 Class B, CCC, NOM * MTBF - over 200,000 hou	-1 NYCE. rs at 25°C ambient condition.	
HP 65 W Smart	Dimensions (H x W x D)	102 x 55 x 30 mm		
AC adapter (EM)	Weight	270 g Not including power cord. Po	wer cord varies by country	
	Input	100 to 240 VAC		
		Input Efficiency	88.0 % at 115 VAC and 89.0 % at 230VAC	
		Input frequency range	50~ 60 Hz May 1.7 A at 90 VAC	
	Output	Input AC current	Max. 1.7 A at 90 VAC	
	Output	Output power	65 W 19.5 V	
		DC output Hold-up time		
		Output current limit	5ms at 115 VAC input The power supply shall limit the maximum steady state output current to an average current of 11 Amperes.	
	Connector	4.5 mm Barrel Type		
	Environmental Design	Operating temperature	32° to 95° F (0° to 35° C)	
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)	
		Altitude	The power supply can be operated at 5,000 m above sea level	
		Humidity	The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non- operating	
	EMI and Safety Certifications	* Worldwide safety standards - IEC60950, EN60950, UL60950, Cla		
		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 3-cell Li-Ion (41 WHr)	Dimensions (H x W x L) Weight Cells/Type Voltage Amp-hour capacity Watt-hour capacity Operating (Charging) Operating (Discharging) Optional Travel Battery Available	6.0 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch) 0.18 kg (0.39 lb) 3cell Lithium-Ion Polymer cell / 515974 11.4V/11.34V 3.6Ah/3.62Ah 41 Wh 32° to 113° F (0° to 45° C) 14° to 122° F (-10° to 60° C) No
HP 3-cell Li-Ion (41 WHr)	Dimensions <b>(H x W x L)</b> Weight Cells/Type Voltage Amp-hour capacity Watt-hour capacity Operating (Charging) Operating (Discharging) Optional Travel Battery Available	6.0 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch) 0.19 kg (0.41 lb) 3cell Lithium-Ion Prismatic cell / 496080 11.55V 3.615Ah/3.63Ah 41Wh 32° to 113° F (0° to 45° C) 14° to 122° F (-10° to 60° C) No



Country of Origin China

Category Cases	<i>Description</i> HP Essential Top Load Case HP Essential Backpack (up to 15.6") HP Essential Messenger Case (up to 17.3")	Part Number H2W17AA#xxx H1D24AA H1D25AA
Docking	HP 3005PR USB3 Port Replicator HP USB Travel Dock HP Monitor Stand	Y4H06AA Tok30AA M9X76AA
Power	HP 45W Smart AC Adapter 4.5mm HP 65W Smart AC Adapter HP 65W Slim AC Adapter	H6Y88AA#XXX H6Y89AA#xxx H6Y82AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Memory	HP 4GB 2666Mhz DDR4 HP 8GB 2666Mhz DDR4	4VN05AA 4VN06AA

### Summary of Changes

Date of change:	Version History:		Description of change:	
June 02, 2020	From v1 to v2	Updated	Accessories Section	

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