

Overview

HP 255 G6 Notebook PC



Front

- | | |
|----------------------------|-------------------------------|
| 1. Webcam LED | 8. USB 3.1 (Gen 1) port |
| 2. Webcam | 9. HDMI port |
| 3. Microphone | 10. RJ-45/Ethernet port |
| 4. Touchpad | 11. VGA port |
| 5. Touchpad buttons | 12. AC plug LED |
| 6. Audio in/out combo jack | 13. AC Smart Pin adapter plug |
| 7. USB 3.1 (Gen 1) port | 14. Power button |

Overview



Right

- | | |
|---|-----------------------------|
| 1. Webcam LED | 7. SD Card slot |
| 2. Webcam | 8. Hard drive indicator LED |
| 3. Microphone | 9. Power indicator LED |
| 4. Security lock slot (Locks sold separately) | 10. Touchpad buttons |
| 5. Optical drive (optional) | 11. Touchpad |
| 6. USB 2.0 port | 12. Power button |

Overview

AT A GLANCE

- Windows 10 versions, FreeDOS 2.0
- Accelerated Processing Unit and graphics from AMD choose from
 - AMD A6-9220 APU with Radeon™ R4 Graphics
 - AMD E2-9000e APU with Radeon™ R2 Graphics Intel® HD Graphics or AMD Radeon™ 520 (up to 2 GB of dedicated video memory)
- New Dark Ash Silver color with a fresh woven texture
- Display choices include: 15.6" diagonal HD or FHD
- Choice of hard drives up to 1 TB or M.2 SATA solid state drives up to 256 GB
- Weight starting at: 4.1 lbs (1.86 kg)
- Security features including FW TPM 2.0 and security lock slot (Lock not included)
- Keyboard
 - Full size textured island-style keyboard with numeric pad on the HP 255 G6
- 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 1x1 802.11ac to help keep you connected

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

Features

PRODUCT NAME

HP 255 G6 Notebook PC

OPERATING SYSTEM

Preinstalled OS Windows 10 Pro 64 ¹
Windows 10 Pro 64 (National Academic only) ¹
Windows 10 Home 64 ¹
Windows 10 Home Single Language 64 ¹
FreeDOS 2.0

NOTE 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/>.

PROCESSOR

AMD A6-9225 APU with Radeon™ R4 Graphics (2.6 GHz, up to 3.0 GHz, 1 MB cache, 2 cores)
AMD A6-9220 APU with Radeon™ R4 Graphics (2.5 GHz, up to 2.9 GHz, 1 MB cache, 2 cores)^{2,3}
AMD E2-9000e APU with AMD Radeon™ R2 Graphics (1.5 GHz, up to 2 GHz, 1 MB cache, 2 cores)^{2,3}

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

NOTE 3: 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

AMD SoC (chipset is integrated with processor)

GRAPHICS

Integrated
AMD Radeon™ R4 Graphics
AMD Radeon™ R2 Graphics



Features

Supports

HD Decode, DX12, and HDMI⁵

NOTE 5: Cables sold separately

DISPLAY

Internal

39.6 cm (15.6") diagonal HD SVA eDP anti-glare slim WLED (1366 x 768) ^{4,6}

39.6 cm (15.6") diagonal FHD SVA eDP anti-glare slim WLED (1920 x 1080) ^{4,6}

NOTE 4: HD content required to view HD images.

NOTE 6: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage

Support all 7.2mm/9.5mm, SATA 2.5" Hard Drives

1 TB SATA 5400 rpm SATA (7.2/9.5 mm) ⁷

500 GB SATA 5400 rpm SATA (7 mm) ⁷

500 GB SATA 7200 rpm SATA (7 mm) ⁷

M.2 SATA-3 Solid State Drives

128 GB M.2 SATA SSD ⁷

256 GB M.2 SATA SSD ⁷

128 GB eMMC ⁹

Optical Drive

Optional DVD+/-RW Double-Layer Writer ^{8,9}

NOTE 7: 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.

NOTE 8: 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.

NOTE 9: Sold separately or as an optional feature.

MEMORY

DDR4

DDR4-1866 (Transfer rates up to 1866 MT/s) (DDR4-2400 downgrade to DDR4-1866)

Single channel support

No customer accessible / upgradeable

Configurations

4096 MB Total System Memory (4096 MB x 1)

Features

6144 MB Total System Memory (2048 MB x 1 + 4096 MB x 1)
8192 MB Total System Memory (8192 MB x 1)

Maximum

Up to 8 GB DDR4-1866 SDRAM

NETWORKING/COMMUNICATIONS

Wireless LAN (WLAN)

Intel® Dual Band Wireless-AC 3168 802.11ac (1x1) Wi-Fi and Bluetooth® 4.2 Combo (non-vPro™)¹⁰

Ethernet

Integrated 10/100/1000 NIC
Communications

Compatible with Miracast-certified devices ¹¹

NOTE 10: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

NOTE 11: Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>.

AUDIO/MULTIMEDIA

Audio

(2) Integrated stereo speakers

Camera

HP TrueVision HD Camera ⁴
Indicator LED, USB2.0, HD BSI sensor, f2.0, WDR
720p by 30 frames per second
Single digital microphone

Webcam

HP Webcam ¹²
VGA camera, indicator LED, USB 2.0, f2.4
480p by 30 frames per second
Single digital microphone

NOTE 4: HD content required to view HD images.

NOTE 12: Internet access required.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full size textured island-style keyboard with numeric keypad



Features

Jet black
Touchpad
Multitouch gestures enabled
Support Modern Trackpad Gestures
Taps enabled as default

SOFTWARE AND SECURITY

Preinstalled Software

Buy Office
HP JumpStart
Windows 10 Redstone1 Recovery Manager Installer - CPS
Windows 10 Redstone1 Push Button Reset Recovery - CPS
HP Support Assistant
HP PC Hardware Diagnostics UEFI
HP ePrint¹³
HP System Event Utility
CyberLink Power Media Player
Bing Search for IE11
Security lock slot (Locks sold separately)
McAfee LiveSafe

NOTE 13: Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.

POWER

Power Supply

45 W Smart AC adapter¹⁵
65 W EM Smart AC adapter¹⁵

Primary Battery

HP 3-cell battery, 31 Whr Li-ion
HP 4 cell battery, 41 Whr Li-ion

Power Cord

1 M (3.28 feet) length power cord with sticker label

Battery life

Up to 7 hours and 30 minutes (4 cell battery)¹⁶

Fast Charge (90 mins, 90% charged)

Supports battery fast charge

NOTE 15: Availability may vary by country.



Features

NOTE 16: 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 www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Weight

Starting at 1.86 kg (4.1 lb) ¹⁷

NOTE 17: Weight varies by configuration and components.

Dimensions (W x D x H)

38 x 25.38 x 2.38 cm

14.96 x 9.99 x 0.93 in

PORTS/SLOTS

Ports/Connectors

USB 3.1 (Gen 1) ports - Two (Left)

USB 2.0 port - One (Right)

HDMI 1.4b - One ¹⁸

VGA port - One ¹⁸

RJ-45 / Ethernet - One ¹⁸

Headphone / microphone combo jack - One

AC Smart adapter port - One

Slots

HP Multi-Format Digital Media Card Reader

Supports SD/SDHC/SDXC

NOTE 18: All cables are sold separately.

SERVICE AND SUPPORT

HP Services offers limited 1-year warranty; 1-year limited warranty on primary battery. On-site service is also available with optional HP Care Services, which extend protection beyond the standard limited warranty. To choose the right level of service for your HP product, use the HP Care Services Lookup Tool at: <http://www.hp.com/go/lookuptool>. Additional HP Care Services, information by product is available at: <http://www.hp.com/go/cpc>.²¹

NOTE 19: 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 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.

Features

Technical Specifications

COMPATIBILITY

Type	Description	Part Number
Accessories	HP USB3.0 Port Replicator	Y4H06AA
	HP Conferencing Keyboard	K8P74AA#xxx
	HP Wireless Display Adapter	J1V25AA#xxx
	HP Essential Backpack	H1D24AA

CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance

UL

FCC Compliance

ENERGY STAR^{®20}

EPEAT[®] Silver²⁰

ICES

CCC

Japan VCCI Compliance

MIC / KCC

CE Marking Compliance

GOST

Saudi Arabian Compliance (ICCP)

SABS

NOTE 20: EPEAT[®] registered where applicable. EPEAT registration varies by country. See <http://www.epeat.net> for registration status by country.

SERVICE AND SUPPORT

HP Services offers limited 1-year warranty; 1-year limited warranty on primary battery. On-site service is also available with optional HP Care Services, which extend protection beyond the standard limited warranty. To choose the right level of service for your HP product, use the HP Care Services Lookup Tool at: <http://www.hp.com/go/lookuptool>. Additional HP Care Services, information by product is available at: <http://www.hp.com/go/cpc>.²¹

NOTE 19: 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 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.



Technical Specifications

DISPLAYS

15.6" FHD WLED AntiGlare (1920x1080) slim (3.2mm) SVA, eDP	Outline Dimensions	360 x 224.3 x 3.2 (max)		
		(W x H x D)		
	Active Area	344.26 x 193.69 mm		
	Weight	360g max		
	Diagonal Size	15.6"		
	Surface Treatment	AG		
	Contrast Ratio	500:1 (typ. AG)		
	Refresh Rate	60Hz		
	Pixel Per Inch (PPI)	141		
	Brightness	220 nit typ.		
	Pixel Resolution	Format	1920 x 1080 (FHD)	
		Configuration	RGB	
	Interface	eDP 1.2		
	LCD Mode	TN		
Viewing Angle	45/45/20/45			
15.6" HD WLED AntiGlare (1366x768) slim (3.2mm) SVA, eDP	Outline Dimensions	359.5 x 223.8 x 3.2 (max)		
		(W x H x D)		
	Active Area	344.23 x 193.54		
	Weight	370g max		
	Diagonal Size	15.6"		
	Surface Treatment	AG		
	Contrast Ratio	500:1 (typ. AG)		
	Refresh Rate	60Hz		
	Pixel Per Inch (PPI)	100		
	Brightness	220 nit typ.		
	Pixel Resolution	Format	1366 x 768 (HD)	

Technical Specifications

Interface	Configuration	RGB
LCD Mode	eDP 1.2	
Viewing Angle	TN	
	45/45/20/40	

STORAGE AND DRIVES

500 GB 5400 rpm SATA Drive Weight Hard Drive	<95g (0.209lb)	
Capacity	500 GB	
Height	6.8 +/- 0.2 mm (0.268 +/- .008 in)	
Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)	
Interface	SATA 6Gb/s	
Performance	Maximum Sequential Read	600 MB/s max
	Maximum Sequential Write	600 MB/s max
Logical Blocks	976,773,168	
Operating Temperature	32° to 140° F (0° to 60° C)	
Features	DIPM	

500 GB 7200 rpm SATA Drive Weight Hard Drive	<95g (0.209lb)	
Capacity	500 GB	
Height	6.8 +/- 0.2 mm (0.268 +/- .008 in)	
Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)	
Interface	SATA 6Gb/s	

Technical Specifications

Performance	Maximum Sequential Read	600 MB/s max
	Maximum Sequential Write	600 MB/s max
Logical Blocks	976,773,168	
Operating Temperature	32° to 140° F (0° to 60° C)	
Features	DIPM	

1 TB 5400 rpm SATA Hard Drive Weight Drive

90g(0.198lb)

Capacity	1TB
Height	7.0 (± 0.2) mm / 0.276 (± 008) in
Width	69.85 (± 0.25) mm / 2.750 (± 0.010) in
Interface	SATA 6Gb/s

Performance	Maximum Sequential Read	600 MB/s max
	Maximum Sequential Write	600 MB/s max
Logical Blocks	1,953,525,168	
Operating Temperature	32° to 140° F (0° to 60° C)	
Features	DIPM	

128 GB SATA-3 Value Drive Weight Solid State Drive

0.01 lb (6 g) ~ 0.02 lb (10 g)

Capacity	128 GB
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Interface	ATA-8, SATA 3.0
Logical Blocks	250,069,680

Technical Specifications

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

Features DIPM; TRIM; DEVSLP

256 GB SATA-3 Value Drive Weight 0.01 lb (6 g) ~ 0.02 lb (10 g)
Solid State Drive

Capacity 256 GB

Height 0.09 in (2.3 mm)

Width 0.87 in (22 mm)

Interface ATA-8, SATA 3.0

Logical Blocks 500,118,192

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

Features DIPM; TRIM; DEVSLP

128 GB SATA TLC Solid Drive Weight 0.01 lb (6 g) ~ 0.02 lb (10 g)
State Drive

Capacity 128 GB

Height 0.09 in (2.3 mm)

Width 0.87 in (22 mm)

Interface ATA-8, SATA 3.0

Logical Blocks 250,069,680

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

Features DIPM; TRIM; DEVSLP

256 GB SATA TLC Solid Drive Weight 0.01 lb (6 g) ~ 0.02 lb (10 g)
State Drive

Capacity 256 GB



Technical Specifications

Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Interface	ATA-8, SATA 3.0
Logical Blocks	500,118,192
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Features	DIPM; TRIM; DEVSLP

NETWORKING/COMMUNICATIONS

WWAN

Intel Dual band wireless-AC 3168 802.11AC 1x1 WiFi + BT 4.2 Combo Adaptor (non-vPro)

Technology/Operating bands	2.4G/5G
Wireless protocol standards	11ac
Maximum data rates	433Mbps
Maximum output power	16.25dBm in 2.4G 17.25dBm in 5G
Maximum power consumption	1250 mW in 11ac 1x1 HB/80 Or 11n 1x1 HB/40
Form Factor	M2 2230
Weight	3 g
Dimensions (Length x Width x Thickness)	22 mm X 30 mm x 2.4 mm



Technical Specifications

POWER

45 W Smart AC adapter	Dimensions (H x W x D)	95.0 x 40.0 x 26.5 mm	
	Weight	200g +/-10%	
	Input	Input Efficiency	87.74 % at 115 Vac and 88.4 % at 230Vac
		Input frequency range	47 to 63 Hz
	Output	Input AC current	Max. 1.4 A at 90 VAC
		Output power	45W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	<8.0A
	Connector	C6 (3pin/with grounded, with Smart ID DC connector)	
	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	0 to 16,400 ft (0 to 5,000 m)
		Humidity	20% to 95%
Storage Humidity		10% to 95%	
EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.		
HP 3-cell Li-Ion (31 WHr)	Dimensions	274.15mm x 35.25mm x 21.1mm	
	Weight	185g	
	Cells/Type	3cell Lithium-Ion cylindrical cell / 18650	
	Voltage	LGC: 10.95V; SDI/Sanyo: 11.1V	
	Amp-hour capacity	LGC: 2850mAh;SDI/Sanyo:2800mAh	
	Watt-hour capacity	LGC: 31.2Wh; SDI/Sanyo:31.08Wh	
	Operating (Charging)	0~45°C	
	Operating (Discharging)	-10~60°C	
	Fuel Gauge LED	No	
	Warranty	300 cycles>80%(at 23 °C)	
Optional Travel Battery Available	No		
HP 4-cell Li-Ion (41 WHr)	Dimensions	274.15mm x 35.25mm x 21.1mm	
	Weight	230g	
	Cells/Type	4cell Lithium-Ion cylindrical cell / 18650	
	Voltage	LGC: 14.6V; SDI/Sanyo:14.8V	

Technical Specifications

Amp-hour capacity	LGC: 2850mAh; SDI/Sanyo: 2800mAh
Watt-hour capacity	LGC: 41.6Wh;SDI/Sanyo41.44Wh
Operating (Charging)	0~45°C
Operating (Discharging)	-10~60°C
Fuel Gauge LED	No
Warranty	300 cycles>80%(at 23°C)
Optional Travel Battery Available	No

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

Category	Description	Part Number
Cases	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Essential Messenger Case (up to 17.3")	H1D25AA
Docking	HP 3005PR USB3 Port Replicator	Y4H06AA
	HP USB Travel Dock	TOK30AA
Input Devices	HP 3001pr USB 3.0 Port Replicator	F3S42AA
	HP Slim USB Keyboard and Mouse	H4B81AA
	HP Slim Wireless Keyboard and Mouse	H6F25AA
	HP 3-Button USB Laser Mouse	G1K28AA
	HP USB Travel Mouse	N9K77AA
	HP Comfort Grip Wireless Mouse	N9K78AA
	HP Ultra Mobile Wireless Mouse	N2Z63AAA
Power	HP HDMI to DVI Adapter	V7W66AA
	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
	HP 65W Smart AC Adapter	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
Storage	HP Power Bank	N9F71AA#xxx
	HP External USB Optical Drive	F2B56AA
Memory	HP 4GB DDR3L-1600 1.35V SODIMM	H6Y75AA#XXX
	HP 8GB DDR3L-1600 1.35V SODIMM	H6Y77AA#XXX
Security	HP Essential Combination Lock	TOY16AA
	HP Combination Lock	TOY15AA
	HP Keyed Cable lock	TOY14AA
	HP Keyed Cable Lock 10mm	T1A62AA
	HP 15.6 NB Privacy Filter (For Jaguars and Lions only)	J7H71AA
	HP 14.0" Notebook Privacy Filter (For Colts and Rams only)	J6E65AA
UCC	HP Conferencing Keyboard	K8P74AA#xxx
	HP UC Speaker Phone	K7V16AA
	HP UC Wired Headset	K7V17AA
	HP Stereo USB Headset	T1A67AA
Displays	HP Stereo 3.5mm Headset	T1A66AA
	HP S140u 14-inch Portable Display	G8R65AA
	HP ProDisplay P223 21-5 inch Monitor	X7R61AA
	HP ProDisplay P232 23-inch Monitor	K7X31AA
Type	HP ProDisplay P240va 23.8-inch Monitor	N3H14AA
Accessories	Description	Part Number
	HP USB3.0 Port Replicator	Y4H06AA
	HP Conferencing Keyboard	K8P74AA#xxx
	HP Wireless Display Adapter	J1V25AA#xxx
	HP Essential Backpack	H1D24AA

Summary of Changes

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