Overview



HP 34" All-in-One Desktop PC

- 1. Camera
- 2. Speakers (top and bottom firing)

3. Wireless Charger (in base)



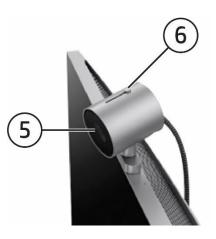
HP 34" All-in-One Desktop PC

QuickSpecs

Overview

16MP (4MP Binning) Webcam + Temporal Noise Reduction + IR Sensor





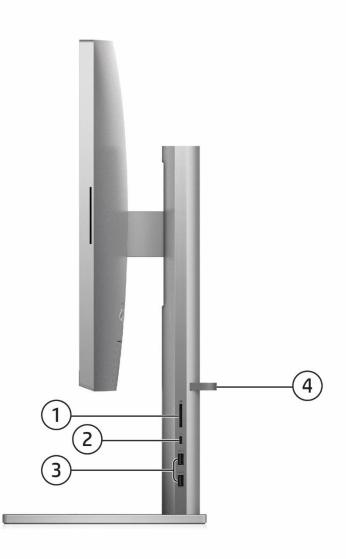
- 1. Dual microphones
- 2. Webcam light
- 3. IR sensor
- 4. IR light

- 5. Privacy shutter
- 6. Shutter control switch



Overview

HP 34" All-in-One Desktop PC



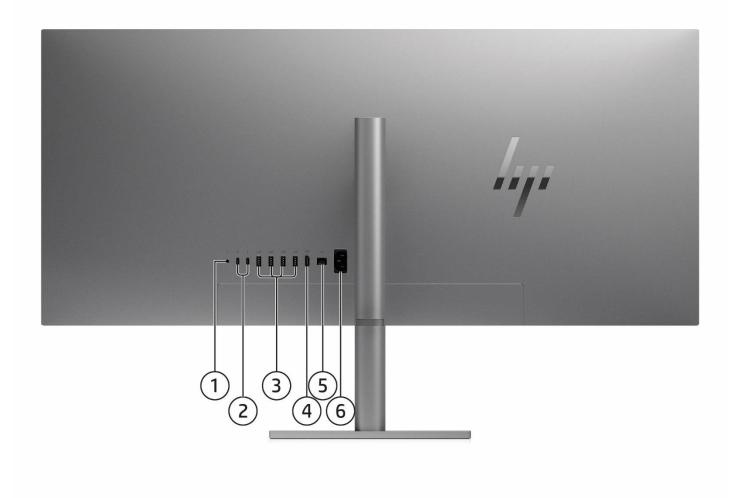
- 1. SD memory card reader
- 2. Type-C[®] SuperSpeed USB 5Gbps signaling rate port (charge support up to (5V/3A)
- 3. 2x SuperSpeed USB Type-A 5Gbps signaling rate (Battery Charging 1.2)
- 4. Cable Management Clip





Overview

HP 34" All-in-One Desktop PC



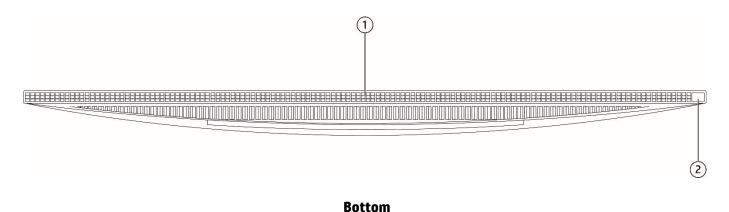
Rear components and rear ports

- 1. 1x headphone/microphone combo
- 2x Thunderbolt[™] 4 with USB[™] Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4, HP Sleep and Charge)
- 3. 4x SuperSpeed USB Type-A 10Gbps signaling rate
- 4. 1x HDMI 2.0/2.1 out
- 5. RJ-45 network connector/jack
- 6. Power Connector



Overview

HP 34" All-in-One Desktop PC



1. Speaker (bottom)

2. Dual-State power button

Not shown

Slots

(1) internal M.2 PCIe x1 connector for optional wireless NIC
(2) internal M.2 PCIe x4 connector for optional m.2 SSD

Features

AT A GLANCE

- HP developed and engineered UEFI V2.8BBIOS supporting security, manageability, and software image stability
- Intel[®] H670 chipset supporting Intel[®] 12th generation Core[™] processors, featuring integrated Intel[®] UHD Graphics and (vPro not supported) (available with Core i5 i7 and i9 processors)
- 34" diagonal flat 21:9 WUHD (5120 × 2160), IPS, three-sided micro-edge, anti-reflection, 500 nits, 98% DCI-P3, non-touch
- Support for three M.2 Storage slots (up to 4TB total [2x2TB])
- Intel[®] UHD 770 graphics
- Discrete Graphics: NVIDIA[®] GeForce RTX[™] 3050 (4 GB GDDR6X dedicated) with LHR orNVIDIA[®] GeForce RTX[™] 3060 (6 GB GDDR6X dedicated) with LHR
- Internal Power Supply: 330W 80 Plus Platinum EPA 92
- Realtek[®] Ethernet Connection Integrated Gigabit Ethernet LAN (RTL8111HSH-CG)
- Intel® Wi-Fi 6AX201 802.11ax 2x2 with Bluetooth® 5 M.2 Combo Card
- DDR5 Synchronous Dynamic Random Access Memory (SDRAM) (Transfer rates up to 4000 MT/s)
- Support for three additional monitor via HDMI and Type-C[®] USB in alternate mode.
- Audio by Bang & Olufsen
- TÜV Rheinland Certified Low Blue Light (Software Solution)
- Qi-wireless charging in the stand base
- Up to two (2) magnetically attachable 16MP (4MP Binned) Temporal Noise Reducing webcam
- IR Sensor supporting Windows Hello
- Enhanced Security with HP Sure Sense and HP Sure Click
- Enhanced by HP Presence
- Adjustable Height Stand
- ENERGY STAR[®] certified. EPEAT[®] registered where applicable. 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.
- CCC, CECP and SEPA Certified
- PC chassis and all internal components and modules are manufactured with low halogen content⁴
- Protected by HP Services, including limited warranties up to 1-1-1 (terms and conditions vary by country; certain restrictions and exclusions apply); Care Packs available with up to 3 years Next Business Day Onsite Hardware Support
- Compliance with CE (Class B) / FCC (Class B) / UL (UL62368-1) / CSA (CSA C22.2 No. 62368-1) / ICES-003 / CCC / VCCI (Class B) / KCC (Class B)

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



OPERATING SYSTEM

Preinstalled

Windows 11 Home & Pro

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.

CHIPSET

Intel® H670



PROCESSORS

Intel® 12th Generation Core™ Processors

Intel[®] Core™ i5-12500 processor with Intel[®] UHD Graphics 770 (3.0GHz, up to 4.6 GHz with Intel Turbo Boost Technology¹, 18 MB cache, 6 cores) 65W^{2.}

Intel® Core™ i7-12700 processor with Intel® UHD Graphics 770 (2.1 GHz, up to 4.9 GHz with Intel® Turbo Boost Technology¹, 25 MB L3 cache, 12 cores) 65W²

Intel[®] Core™ i9-12900 processor with Intel[®] UHD Graphics 770 (2.4GHz, up to 5.1 GHz with Intel Turbo Boost Technology¹, 30 MB cache, 16 cores) 65W^{2.}

 Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system. See http://www.intel.com/technology/turboboost for more information.
 Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a configuration measurement of higher performance. http://intel.com/vpro.

GRAPHICS

Integrated Intel® Graphics

Intel[®] UHD Graphics 770 (integrated in 12th gen Corei5-12500T and above)

Adapters and Cables

HP USB to Serial Port Adapter

HP USB-C to HDMI Adapter

HP USB-C to DisplayPort Adapter

HP HDMI Standard Cable Kit (HDMI)



STORAGE

M.2 PCIe NVMe Solid State Drives (SSD)

256GB* M.2 2280 PCIe NVMe SSD

256GB* M.2 2280 PCIe NVMe Three Layer Cell SSD

512GB* M.2 2280 PCIe NVMe SSD

512GB* M.2 2280 PCIe NVMe Three Layer Cell SSD

1TB* M.2 2280 PCIe NVMe SSD

1TB* M.2 2280 PCIe NVMe Three Layer Cell SSD

2TB* M.2 2280 PCIe NVMe SSD

2TB* M.2 2280 PCIe NVMe Three Layer Cell SSD

NOTE*: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) of system disk is reserved for the system recovery software

Media Card Reader

SD 4.0 with 3-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I, UHS-II)

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) of system disk is reserved for the system recovery software.

MEMORY

Memory Type

DDR5-4800 (Transfer rates up to 4000 MT/s), Max 128 GB, SO-DIMM

Memory Configuration

	5	
8GB x 2		
16GB x 2		
8GB x 4		
16GB x 4		
32GB x 2		
32GB x 4		

NOTE: 2 DIMMs per channel requires platform design with four physical DIMM slots. 2 DIMMS per channel is supported when channel is populated with the same DIMM part number. Symmetric configurations are required for 2 DIMMs per channel physical configuration. Population rule: ensure furthest DIMM from processor is populated.

NOTE: All memory slots are customer accessible / upgradeable.



NETWORKING/COMMUNICATIONS

Ethernet (RJ-45)

Integrated Gigabit Ethernet LAN (RTL8111HSH-CG)

Wireless

Intel[®] Wi-Fi 6¹ AX201 802.11ax 2x2 with Bluetooth[®] 5 M.2 Combo Card

1. 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.

KEYBOARDS AND POINTING DEVICES

Keyboard and Mouse Combo

HP 915 Wireless Keyboard and Mouse

SECURITY

USB enable / disable (via BIOS)	
Side IO USB enable / disable (via BIOS)	
boot control	
Power-on password (via BIOS)	
Setup password (via BIOS)	

PORTS

I/O Ports – Internal Ports

|--|

Standard User Accessible Ports

Type-A SuperSpeed USB 5 Gbps signaling rate port	2 (side)
Type-A SuperSpeed USB 10 Gbps signaling rate port	4 (rear)
Thunderbolt [™] 4 with USB4 [™] Type-C [®] 40Gbps signaling rate (USB Power Delivery, DisplayPort [™] 1.4, HP Sleep and Charge)	2 (rear)
SuperSpeed USB Type-C [®] 5Gbps signaling rate	1 (side)
Video	2 USB Type-C [®] with alt mode Display Port 1.4a and 1518W output) (rear) 1 HDMI 2.0/2.1 out (rear)
Audio	1 CTIA/OMTP UAJ (side)

Bays

SD Card Reader



1

USB SPECIFICATION AND MARKETING NAME MAPPING TABLE

Marketing Name	Technical Terminology
Hi-Speed USB 480Mbps signaling rate	USB 2.0
SuperSpeed USB 5Gbps signaling rate	USB 3.2 Gen 1
SuperSpeed USB 10Gbps signaling rate	USB 3.2 Gen 2
SuperSpeed USB 20Gbps signaling rate	USB 3.2 Gen 2x2



SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Software

HP Connection Optimizer

Manageability Features

HP Driver Packs (download)

Security Management

HP Wolf Security for Business¹: HP Sure Click² HP Sure Sense³

1. HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.

2. HP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.

3. HP Sure Sense is available on select HP PCs and is not available with Windows10 Home.



UNIT ENVIRONMENT AND OPERATING CONDITIONS

ENERGY STAR® certified models available

ENERGY STAR[®] certified. EPEAT[®] 2019 registered where applicable. 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. Low halogen (chassis, all internal components and modules)¹ TAA compliant models available

1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

UNIT ENVIRONMENT AND OPERATING CONDITIONS

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit
 is operated within the specified operating range.
- Leave a 10.2 cm (4 in) clearance on all vented sides of the computer to permit the required airflow.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the
 enclosure, and the same operating guidelines listed above will still apply.

Temperature Range	Operating: 50° to 95° F (10° to 35° C)² Non-operating: -22° to 149° F (-30° to 65° C)
Relative Humidity	Operating: 10% to 90% (non-condensing at ambient) Non-operating: 5% to 95% (non-condensing at ambient)
Maximum Altitude (unpressurized)	Operating: 5000m Non-operating: 50000ft (15240 m)
2. Operating temperature is de	x rated 1.0 deg C per 200 m (1000 ft) to 2000 m (10.000 ft) above cas le

2. Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.



ENVIRONMENTAL & INDUSTRY

Eco-Label Certifications & declarations	 This product has received or is in the process of being be labeled with one or more of these marks: IT ECO declaration US ENERGY STAR[®] US Federal Energy Management Program (FEM Based on US EPEAT[®] registration according to I varies by country. Visit http://www.epeat.net f TCO Certified Edge Taiwan Green Mark Korea Eco-label Japan PC Green label) EE 1680.1-2018 r more informati	EPEAT®. EPEAT® status
System Configuration	The configuration used for the Energy Consumption and Declared Noise in-One PC model is based on a typically configured PC featuring a hard of power supply, and a Microsoft Windows [®] operating system.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz 230VAC, !		50Hz	100VAC, 50Hz
Normal Operation (Short idle)	14.97 watt	15.06 w	vatt	14.79 watt
Normal Operation (Long idle)	2.36 watt 2.45 v		att	2.18 watt
Sleep	2.4 watt	2.42 w	att	2.37 watt
Off	0.97 watt0.98 wNOTE: Energy efficiency data listed is for an ENERGY STAR® family. HP computers marked with the ENERGY STAR® Log Environmental Protection Agency (EPA) ENERGY STAR® spe not offer ENERGY STAR® compliant configurations, then en configured PC featuring a hard disk drive, a high efficiency system.			
			ifications for comp rgy efficiency data	outers. If a model family does listed is for a typically
Heat Dissipation*	115VAC, 60Hz 230VAC		50Hz	100VAC, 50Hz
Normal Operation (Short idle)	51.0477 BTU/hr	51.3546 B	TU/hr	50.4339 BTU/hr
Normal Operation (Long idle)	8.0476 BTU/hr 8.3545		ſU/hr	7.4338 BTU/hr
Sleep	8.184 BTU/hr 8.2522		ſU/hr	8.0817 BTU/hr
Off	3.3077 BTU/hr	3.3418 B	BTU/hr 3.2054 BTU/hr	
	NOTE: Heat dissipation is calculated based on the measured one hour.		d watts, assuming the service level is attained for	
	Sound Power (L _{WAd} , bels)		Sound Pressure (L _{pAm} , decibels)	
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels)			_{-pAm} , decibels)
(in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle	(L _{WAd} , bels) 2.5			_{-pAm} , decibels) 13.6
(in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels)		(1	_pAm, decibels) 13.6 13.6



Features

	1		
) Type A - 35W slot	
	• 1 mSATA		
	 1 2.5" inte 	ernal bay supporting up to Two 2.5" hard drives (HDD/S	SD/SED/SSHD)
	• 15.25" ex	ternal supporting optical drive	
	Spare parts a	are available throughout the warranty period and or for	up to 3 years after the end of
	production.		
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC	
	Batteries use	ed in the product do not contain:	
		iter the1ppm by weight	
	Cadmium gre	eater than 20ppm by weight	
	Battery size:	CR2032 (coin cell)	
	Battery type:	Lithium	
Additional Information	This pr	oduct is in compliance with the Restrictions of Hazardo	us Substances (RoHS) directive
		, /65/EC.	
	This HI	P product is designed to comply with the Waste Electric	al and Electronic Equipment
) Directive – 2002/96/EC.	
		oduct is in compliance with California Proposition 65 (S	tate of California: Safe Drinking
		and Toxic Enforcement Act of 1986).	
		Y STAR [®] certified. EPEAT [®] 2019 registered where appli	able Based on US EPEAT®
		ation according to IEEE 1680.1-2018 EPEAT [®] . EPEAT [®] s	
		www.epeat.net for more information.	
			marked per ISO11469 and
	 Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. 		
		oduct contains 51.7% post-consumer recycled plastic (by wt) according to IEEE
		-2018 standard, criterion 4.2.1.1.	by will according to ILLE
		oduct is 97.8% recycle-able when properly disposed of	at and of life
	• msp		
Packaging Materials	External:	PAPER/Corrugated	1.488 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	1.052 g
	The plastic packaging material contains at least xx% recycled content.		
	The corrugated paper packaging materials contains at least xx% recycled content.		
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the		
-		n the European Union (EU) Restriction of Hazardous Sub	
		ldwide through the HP GSE. HP has contributed to the c	
	legislation in	Europe, as well as China, India, and Vietnam.	
			- in a constant in a local control of the
		ne RoHS directive and similar laws play an important rol	
			and a food distance of a share a second
			on of additional substances—
	including PV	C, BFRs, and certain phthalates—in future RoHS legislat	
		C, BFRs, and certain phthalates—in future RoHS legislat	
	including PV and electron	C, BFRs, and certain phthalates—in future RoHS legislat ics products.	ion that pertains to electrical
	including PV and electron We met our v	C, BFRs, and certain phthalates—in future RoHS legislat	ion that pertains to electrical th the new EU RoHS
	including PV(and electron We met our v requirement	C, BFRs, and certain phthalates—in future RoHS legislat ics products. voluntary objective to achieve worldwide compliance wi	ion that pertains to electrical th the new EU RoHS e will continue to extend the
	including PV(and electron We met our v requirement	C, BFRs, and certain phthalates—in future RoHS legislatics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we	ion that pertains to electrical th the new EU RoHS e will continue to extend the
	including PVG and electron We met our v requirement: scope of the evolve.	C, BFRs, and certain phthalates—in future RoHS legislatics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to
Material Usage	including PVG and electron We met our v requirements scope of the evolve. To obtain a c	C, BFRs, and certain phthalates—in future RoHS legislatics products. Poluntary objective to achieve worldwide compliance wis for virtually all relevant products by July 2013, and we commitment to include further restricted substances as popy of the HP RoHS Compliance Statement, see HP RoH	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to S position statement.
Material Usage	including PVG and electron We met our v requirements scope of the evolve. To obtain a c This product	C, BFRs, and certain phthalates—in future RoHS legislat ics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we commitment to include further restricted substances as opy of the HP RoHS Compliance Statement, see HP RoH does not contain any of the following substances in exc	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to S position statement.
Material Usage	including PVG and electron We met our v requirements scope of the evolve. To obtain a c This product to the HP Gen	C, BFRs, and certain phthalates—in future RoHS legislat ics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we commitment to include further restricted substances as opy of the HP RoHS Compliance Statement, see HP RoH does not contain any of the following substances in exc neral Specification for the Environment at	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to S position statement. ess of regulatory limits (refer
Material Usage	including PVG and electron We met our v requirements scope of the evolve. To obtain a c This product to the HP Gen http://www.l	C, BFRs, and certain phthalates—in future RoHS legislat ics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we commitment to include further restricted substances as opy of the HP RoHS Compliance Statement, see HP RoH does not contain any of the following substances in exc	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to S position statement. ess of regulatory limits (refer
Material Usage	including PVG and electron We met our v requirements scope of the evolve. To obtain a c This product to the HP Gen	C, BFRs, and certain phthalates—in future RoHS legislat ics products. voluntary objective to achieve worldwide compliance wi s for virtually all relevant products by July 2013, and we commitment to include further restricted substances as opy of the HP RoHS Compliance Statement, see HP RoH does not contain any of the following substances in exc heral Specification for the Environment at np.com/hpinfo/globalcitizenship/environment/pdf/gse	ion that pertains to electrical th the new EU RoHS e will continue to extend the s regulations continue to S position statement. ess of regulatory limits (refer



Features

	• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
	• Cadmium
	Chlorinated Hydrocarbons
	Chlorinated Paraffins
	• Formaldehyde
	Halogenated Diphenyl Methanes
	Lead carbonates and sulfates
	Lead and Lead compounds Morsuris Oxide Battories
	 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 Oxides (PBBOs)
	Polychlorinated Biphenyl (PCB)
	Polychlorinated Terphenyls (PCT)
	• Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been
	voluntarily removed from most applications.
	Radioactive Substances
	• 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 Inc. 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. 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://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf
	and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



SERVICE AND SUPPORT

On-site Warranty¹: One-year (1-1-1) limited warranty delivers three years of on-site, next business day² service for parts and labor support. Service offers terms up to 3 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.³

Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
 On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
 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.

CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance

ENERGY STAR[®] certified. EPEAT[®] 2019 registered where applicable. EPEAT [®] registration varies by country. See http://www.epeat.net for registration status by country. According to IEEE 1680.1-2018.



Technical Specifications – Processors

PROCESSORS

Intel[®] 12th Generation Core[™] Processors

- Support for configuration of Intel ME 16.0 capabilities
- No reset after provisioning
- Profile Editor and Profile Editor Plugin Interface



Technical Specifications – Display Panel Specifications

DISPLAY PANEL SPECIFICATIONS

34" diagonal IPS widescreen WLED backlit LCD (5120x2160)

Active area (mm) 795.648 x 335.664 Native resolution (HxV) 5120 x 2160 Refresh rate 60 Hz @ 5120 x 2160 Aspect ratio 21:9 Pixel pitch (HxV)(mm) 0.0518 x 0.1554 Contrast ratio 1200:1 Brightness* 500nits Viewing angle (HxV) 178° x 178° Backlight lamp life (to half brightness) 30,000 hours minimum Color support Up to 1.07 billion colors with 10 Bit(8 Bit + FRC) Color gamut DCI-P3 99%	Τνρε	IPS WLED Backlit LCD
Native resolution (HxV)5120 x 2160Refresh rate60 Hz @ 5120 x 2160Aspect ratio21:9Pixel pitch (HxV)(mm)0.0518 x 0.1554Contrast ratio1200:1Brightness*500nitsViewing angle (HxV)178° x 178°Backlight lamp life (to half brightness)30,000 hours minimumColor supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	<i>,</i>	
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Contrast ratio1200:1Brightness*500nitsViewing angle (HxV)178° x 178°Backlight lamp life (to half brightness)30,000 hours minimumColor supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	Aspect ratio	21:9
Brightness*500nitsViewing angle (HxV)178° x 178°Backlight lamp life (to half brightness)30,000 hours minimumColor supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	Pixel pitch (HxV)(mm)	0.0518 x 0.1554
Viewing angle (HxV)178° x 178°Backlight lamp life (to half brightness)30,000 hours minimumColor supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	Contrast ratio	1200:1
Backlight lamp life (to half brightness)30,000 hours minimumColor supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	Brightness*	500nits
Color supportUp to 1.07 billion colors with 10 Bit(8 Bit + FRC)Color gamutDCI-P3 99%	Viewing angle (HxV)	178° x 178°
Color gamut DCI-P3 99%	Backlight lamp life (to half brightness)	30,000 hours minimum
	Color support	Up to 1.07 billion colors with 10 Bit(8 Bit + FRC)
Anti-glare AR (1.5% Reflectivity, 2% Haze)	Color gamut	DCI-P3 99%
	Anti-glare	AR (1.5% Reflectivity, 2% Haze)
Response time 14ms	Response time	14ms
Default color temperature Warm (6500K)	Default color temperature	Warm (6500K)

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	100mm (±2 mm)
	Portrait Adjustment	No portrait
	Tilt Angle	-3.5°(±1.5°)to +18.5° (±1.5°) in landscape and portrait
	Rotation (Swivel)	No Rotation (Swivel)
	Pivot	No pivot

Technical Specifications – Graphics

GRAPHICS

Discrete Graphics	NVIDIA® GeForce RTX™ 3050 or NVIDIA® GeForce RTX™ 3060
VGA Controller Type-C® USB x2 in alternate mode	Intel IGP for Integrated panel with NVIDIA MS-Hybrid Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR3 link rates and Multi-Stream Technology for a maximum of 4 displays (including the integrated panel and all attached displays)
HDMI-Out	HDMI 2_Q/2.1
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12
Max. Resolution (HDMI 2.1)	7680 x 4320@60Hz with DSC
Max. Resolution (Type-C [®] DP1.4a)	7680 x 4320@60Hz with DSC

Technical Specifications – Storage

STORAGE

256GB M.2 2280 PCIe NVMe SSD

Drive Weight	< 10g
Capacity	256 GB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIe NVMe
Maximum Sequential Read	3200 MB/s ±20%
Maximum Sequential Write	2000 MB/s ±20%
Logical Blocks	500,118,192
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	TRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

256GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight	< 10g
Capacity	256 GB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIE Gen4x4
Maximum Sequential Read	4000 MB/s ±20%
Maximum Sequential Write	2000 MB/s ±20%
Logical Blocks	500,118,192
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

512GB M.2 2280 PCIe NVMe SSD

Drive Weight	< 10g
Capacity	512 GB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIe NVMe
Maximum Sequential Read	3200 MB/s ±20%
Maximum Sequential Write	3200 MB/s ±20%
Logical Blocks	1,000,215,216
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]



Technical Specifications – Storage

Features

TRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

512GB M.2 2280 PCIe NVMe Three Layer Cell SSD

-
< 10g
512 GB
2.3 mm
80 mm
22 mm
PCIE Gen4x4
6400 MB/s ±20%
3500 MB/s ±20%
1,000,215,216
0° to 70°C (32° to 158°F) [ambient temp]
TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

1TB M.2 2280 PCIe NVMe SSD

Drive Weight	< 10g
Capacity	1 TB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIe NVMe
Maximum Sequential Read	3200 MB/s ±20%
Maximum Sequential Write	3200 MB/s ±20%
Logical Blocks	2,000,409,264
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	TRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

1TB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight	< 10g
Capacity	1 TB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIE Gen4x4
Maximum Sequential Read	6400 MB/s ±20%
Maximum Sequential Write	5000 MB/s ±20%



Technical Specifications – Storage

Logical Blocks	2,000,409,264
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.

2TB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight	< 10g
Capacity	2 TB
Height	2.3 mm
Length	80 mm
Width	22 mm
Interface	PCIE Gen4x4
Maximum Sequential Read	6400 MB/s ±20%
Maximum Sequential Write	5000 MB/s ±20%
Logical Blocks	4,000,797,360
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.



NETWORKING AND COMMUNICATIONS

Intel® I225-LM 2.5 Gigab	it Network Connection LOM (non-vPro)
Connector	RJ-45
System Interface	PCI(Intel proprietary) + SMBus
Data rates supported	1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
	2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
	3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 40)
	4. 2.5 Gbit/s operation(2.5GBASE-T; IEEE 802.3bz Clause 126)
	5. Auto-Negotiation (Automatic Speed Selection)
	Full Duplex Operation at all Speeds, Half Duplex operation at 10, 100 & 1000 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support
	IEEE 802.1q VLAN support
	IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	IEEE 802.3az EEE (Energy Efficient Ethernet)
	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BAE-T
	IEEE 802.3bz 2.5GBASE-T
Performance	TCP/IP/UDP Checksum Offload (configurable)
	Protocol Offload (ARP & NS)
	Large send offload and Giant send offload
	Receiving Side Scaling(Hash Mode Only)
	Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW
	100Mbps Full Run: 450mW
	1000bp Full Run: 1000mW
	WoL Enable(S3/S4/S5): 50mW
	WoL Disable(S3/S4/S5): 25mW
Power	ACPI compliant – multiple power modes
Management	Situation-sensitive features reduce power consumption
	Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame);
	Wake-on-LAN from off (Magic Packet only)
	PXE 2.1 Remote Boot
	Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))
	Comprehensive diagnostic and configuration software suite
	Virtual Cable Doctor for Ethernet cable status
Security & Manageability	Intel [®] non-vPro [™] support with appropriate Intel [®] chipset components

Intel Wi-Fi 6 AX201 ¹ + BT5 (a	802.11ax 2x2, non-vPro, supporting gigabit file transfer speeds²) non-vPro	
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	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	Features Wi-Fi 6 technology	
Frequency Band	802.11b/g/n/ax	
Frequency band	• 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	
Data Rates	• 802.110: 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)	
	• 802.111ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz & 160MHz)	
	• 802.11ac. MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz) • 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)	
Modulation	Direct Sequence Spread Spectrum	
Modulation		
Committee 3	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM	
Security ³	 IEEE compliant 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 certification	
	• IEEE 802.11i	
Notwork Architecture	• WAPI Ad bas (Poor to Poor)	
Network Architecture	Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power ⁴	• 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	
	• 802.11ac VHT160(5GHz): +11.5dBm minimum	
	• 802.11ax HT40(2.4GHz): +10dBm minimum	
	• 802.11ax VHT160(5GHz): +10dBm minimum	
Power Consumption	Transmit mode 2.0 W	
	Receive mode 1.6 W	



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	Idle mode (PSP) 180 mW (WLAN Associated)		
	Idle mode 50 mW (WLAN unassociated)		
	Connected Standby 10mW Radio disabled 8 mW		
Power Management	ACPI and PCI Express compliant power management		
rower management	802.11 compliant power saving mode		
Receiver Sensitivity ⁵	•802.11b, 1Mbps: -93.5dBm maximum		
	•802.11b, 11Mbps: -84dBm maximum		
		ps: -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		
		I (HT40): -59dBm maximum	
		(VHT160): -58.5dBm maximum	
Antenna type	High efficiency an	tenna with spatial diversity, mounted in the display enclosure	
	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support		
Fauna Falada a		nunications and Bluetooth communications	
Form Factor Dimensions	PCI-Express M.2 MiniCard with CNVi Interface		
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm		
Weight	2. Type 1216: 1.67 x 12.0 x 16.0 mm 1. Type 2230: 2.8g 2. Type 126: 1.3g		
weight			
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 Blue	tooth ^â 4.0/4.1/4.2/!	5.0/5.1 Wireless Technology	
Bluetooth [®] Specification	4.0/4.1/4.2/5.0/5.1 Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps		
51	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 Bluetoothâ component shall operate as a Class II Bluetoothâ device with a maximum transmit power of +9.5 dBm for BR and EDR.		
Power Concumption			
Power Consumption	Peak (Tx) 330 mW		
	Peak (Rx) 230 mW Selective Suspend 17 mW		
Bluetooth [®] Software Supported			
Bluetooth [®] Software Supported Link Topology	Microsoft Windows Bluetoothâ Software		
Power Management	Microsoft Windows	ACPI, and USB Bus Support	



Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
	ETS 300 328, ETS 300 826
	Low Voltage Directive IEC60950
	UL, CSA, and CE Mark
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance
	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 s	ervice required and sold separately. Availability of public wireless access points limited. Wi-Fi 6
(802.11ax) is backwards compatible w	
	it data rate when transferring files between two devices connected to the same router. Requires a
wireless router, sold separately, that s	upports 80MHz and higher channels.
	e for updates on supported security features.
	er 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must
	247 or otherwise disable those channels.
5. Receiver sensitivity is measured at a (OFDM modulation).	packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g
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Technical Specifications – Audio/Multimedia

I/O DEVICES

HP 915 Wireless Key	board		
.	Keys	104, 109 layout (depending upon country)	
Physical Characteristics	Dimensions (L x W x H)	L 410.15 ± 1.0 mm x W 114.20 ± 1.0 mm x H 18.7 ± 1.0mm	
	Weight	595±30 g (Without battery)	
	Operating voltage	2.0~3.0V	
	Power consumption	2mA~25mA maximum	
Electrical	System interface	2.4GHz Wireless	
Electrical	ESD	Contact Discharge: 2, 4, 6, 8 KV	
	ESU	Air Discharge: 2, 4, 8,10,12.5 KV	
	EMI - RFI	Conforms to FCC rules for a Class B computing device	
	Кеусарѕ	Low-profile design	
	Switch actuation	60±10g nominal peak force with tactile feedback	
Mechanical	Switch life	FN key 5M; Normal Key 10 million keystrokes (Life tester)	
mechanical	Switch type	Scissor module	
	Key-leveling mechanisms	For all double-wide and greater-length keys	
	Cable length	No Cable	
	Acoustics	50 dBA max	
	Operating temperature	0°Cto 40 °C	
	Non-operating temperature	-30°C to 65°C	
	Operating humidity	15% to 90% (non-condensing at ambient)	
	Non-operating humidity	40% to 60% (non-condensing at ambient)	
Environmental	Operating shock	50lps - 65lps, six surfaces	
	Non-operating shock	30 g, six surfaces	
	Operating vibration	0.21g peak acceleration	
	Non-operating vibration	5-500Hz-5Hz peak acceleration; 2.09g peak acceleration	
	Drop (out of box)	76cm on Woody surface; 6 faces (1 time / face)	
	Drop (in box)	drop height 76cm, 10 drops including 6 faces, one corner and 3 edges on rigid surface.	
Approvals	UL, FCC, IC, CE Mark, TUV Bauart, TELEC, VCCI, BSMI, NCC, RCM, KCC, ANATEL, CNC, EAC, IFETEL, NOM, WPC, SIRIM, ICASA		

Technical Specifications – Audio/Multimedia

HP 915 Wireless Mous	e		
Dimensions (H x L x W)	H 31.58+/-0.3mm x L 119.3+/-0.5mm x W 64.83+/-0.3mm		
Weight	68+/-10g (Without battery)		
	Operating temperature	0°Cto 40 °C	
	Non-operating temperature	-30°C to 65°C	
	Operating humidity	15% to 90% (non-condensing at ambient)	
Environmental	Non-operating humidity	40% to 60% (non-condensing at ambient)	
	Operating shock	50lps - 65lps, six surfaces	
	Non-operating shock	30 g, six surfaces	
	Operating vibration	0.21g peak acceleration	
	Non-operating vibration	5-500Hz-5Hz peak acceleration; 2.09g peak acceleration	
	Operating voltage	2.0~3.0V	
	Power consumption (typical)	2mA~40mA maximum	
Electrical	Resolution	1000 DPI (Default)	
	Sensor	Pixart PAW 3220LU	
	Tracking speed	up to 30 inch/sec	
	Tracking acceleration	2.4GHz Wireless	
Mechanical	Color	Key cover: Mineral Silver -40% Darker; Top/bottom cover: Turbo Silver	
Regulatory approvals	Compliant	UL, FCC, IC, CE Mark, TUV Bauart, TELEC, VCCI, BSMI, NCC, RCM, KCC, ANATEL, CNC, EAC, IFETEL, NOM, WPC, SIRIM, ICASA	
Ergonomic compliance	Compliant	N/A	

Technical Specifications – Audio/Multimedia

AUDIO/MULTIMEDIA

Bang & Olufsen Audio	
Туре	Integrated
HD Stereo Codec	Realtek ALC3274
Audio I/O Ports	Side headset connector supports a CTIA/OMTP style headset and is re-taskable as a Line-in, Line- out, Microphone-in or Headphone-out port All ports are 3.5mm and support stereo
Internal Speaker Amplifier	5W per channel class D stereo amplifier for the internal speakers only
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 front and rear jacks or integrated speakers.
Sampling	Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz to 192 kHz for DAC and 44.1 kHz to 192 kHz for ADC
Wavetable Syntheses	Yes - Uses OS soft wavetable
Analog Audio	Yes
# of Channels on Line-Out	Stereo (Left & Right channels)
Internal Speaker	Yes - Stereo

Technical Specifications – Integrated Webcam and Microphone

WEBCAM AND MICROPHONE

Webcam and Microphone Magnetically attaching 16MP (4MP binned) webcam with Temporal Noise Reduction (TNR) and IR Sensor (Supports Windows Hello)

NOTE: All HP devices which carry the Bang & Olufsen brand are custom-tuned with Bang & Olufsen's acoustical engineers for precise sound experience in business use.



Technical Specifications – Power

POWER

Unit Environment and Operating Conditions

Temperature Range	Operating: 5°C ~45°C Non-Operating: -40°C ~66°C
Relative Humidity	Operating 5% to 90% relative humidity at max inlet temperature Non-Operating 5% to 90% relative humidity at max inlet temperature
Maximum Altitude (unpressurized)	Operating: 5000m Non-operating: 50,000 ft. (15240 m)

	240W active PFC / 80 PLUS Platinum 280W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)
Operating Voltage Range	90Vac~264Vac
Rated Voltage Range	100Vac~240Vac
Rated Line Frequency	50HZ~60HZ
Operating Line Frequency	47HZ~63HZ
Rated Input Current	
	240W≦3.0A
Power Supply	280W≦3.2A
DC Output	+20V

Current Leakage (NFPA 99: 2012)	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1. Less than 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.
Power cord length	6.0 ft. (1.83 m) ^{1,2}
External Power Adapter	Internal power supply
Dimensions	130mm x 90mm x 26m
Total Cord Length	6.0 ft. (1.83 m)

1. Power cord length will be varied from different type of cords start from 1.8m.

2. The length of India power cord is 2.0m



Technical Specifications – Power

12~13V (DC) After QI certificate, this range are optimum voltage.
12.6V (DC) (The optimum working voltage)
Typ. 1.5A (2A max.)
<24W
Average current=12.5mA Max. (Q/Ping period= 500ms Avg. Power 150mW Max.)
15V Max.
2.1A± 10%

Wireless Charger General Description

The power supply shall comply with harmonic input current requirements as detailed in EN61000-3-2 and JEIDA MITI standards. The harmonic input current requirements must be met under the following operating conditions:

Load Requirements: 50% and 100% $% \left(100\% \right)$

Input Voltage: 230Vac/50Hz.

For active power factor correction the power factor at 50% &100% loads shall be greater than 0.9 over the entire nominal input voltage range (100-127VAC and 200-240VAC).

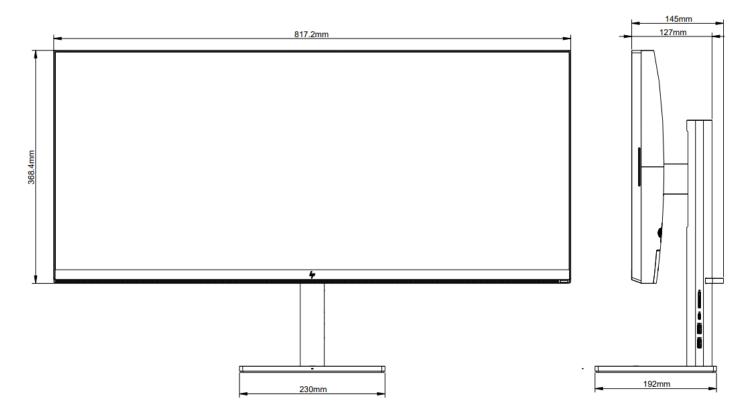
Condition	Standard Efficiency	82/85/82%	85/88/85%	87/90/87%	90/92/89%	Input Voltage
10% of Rated Load	-	75%	81%	84%	86%	115Vac/60HZ
20% of Rated Load	-	82%	85%	87%	90%	115Vac/60HZ
50% of Rated Load	-	85%	88%	90%	92%	115Vac/60HZ
	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.95	
100% of Rated	70%	82%	85%	87%	89%	115Vac/60HZ
Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9	230Vac/50HZ

Technical Specifications – Miscellaneous Features

WEIGHTS & DIMENSIONS

Palletization Profile	10-units per layer
	4-layers max
	40-units per pallet (sea)
	1200 x 1000 x 2470 mm

STANDS AND DIMENSIONS



Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	64.6mm (±1 mm)
	Portrait Adjustment	No portrait
	Tilt Angle	-5° (+1.0/-2.0°) ~ 25° (+/-1.5°) in landscape
		and portrait
	Rotation (Swivel)	No rotation (Swivel)
	Pivot	No pivot



Technical Specifications – Miscellaneous Features

ALL-IN-ONE WEIGHTS AND DIMENSIONS

Product Weight Unboxed	19.44 lb	Adjustable Height Stand (WLC) 26.0 lb. 11.8 kg
Shipping Weight Boxed EPE	37.10 lb	Adjustable Height Stand (WLC) 43.67 lb 19.81 kg



Technical Specifications – Miscellaneous Features

MISCELLANEOUS FEATURES

Management Features

- Advanced Configuration and Power Management Interface (ACPI). Allows the system to wake from a low power mode. Controls system power consumption, making it possible to place individual cards and peripherals in a low-power or powered-off state without affecting other elements of the system.
- Intel[®] Wired for Management support; industry wide initiative to make Intel[®] architecture based PCs, servers and mobile computers more inherently manageable out-of-the-box and over the network
- Dual State Power Button; acts as both an on/off button and a suspend-to-sleep button

Serviceability Features

- Dual colored power LED on front of computer to indicate either normal or fault condition
- Diagnostic LED Explanation Table:
 - Power LED will blink red 2 to 5 times, then blink white 2 or more times, then repeat (with beep tones for each blink initially):
 - 2 red + 2 white User must provide file for BIOS recovery (USB storage typically)
 - 2 red + 3 white User must enter a key sequence to proceed with recovery by policy
 - 2 red + 4 white BIOS recovery is in progress
 - 3 red + 2 white Memory could not be initialized
 - 3 red + 3 white Graphics adaptor could not be found
 - 3 red + 4 white Power supply failure / not connected
 - 3 red + 5 white Processor not installed
 - 3 red + 6 white Current processor does not support an enabled feature
 - 4 red + 2 white Processor has exceeded its temperature threshold / system thermal shutdown
 - 4 red + 3 white System internal temperature has exceeded its threshold
 - 5 red + 2 white System controller firmware is not valid
 - 5 red + 3 white System controller detected BIOS is not executing
 - 5 red + 4 white BIOS could not complete initialization / PCA failure
 - 5 red + 5 white System controller rebooted the system after a health or recovery timer triggered
- HP PC Hardware Diagnostics UEFI:
 - This utility enables hardware level testing outside the operating system on many components. The diagnostics can be invoked by pressing F2 at POST, and is available as a download from HP Support
- System/Emergency ROM
- Flash ROM
- CMOS Battery Holder for easy replacement
- 1 Aux Power LED on System PCA
- Processor ZIF Socket for easy Upgrade
- Over-Temp Warning on Screen (Requires IM Agents)
- DIMM Connectors for easy Upgrade
- Clear CMOS Button
- NIC LEDs (integrated) (Green & Amber)
- Dual Color Power and HD LED To Indicate Normal Operations and Fault Conditions
- Color coordinated cables and connectors
- Tool-less Hood Removal
- Front power switch
- System memory can be upgraded without removing the system board or any internal components
- Green Pull Tabs, and Quick Release Latches for easy Identification



Technical Specifications – Miscellaneous Features

Additional Features	Description
Drive Lock	Implementation of the industry standard ATA Security feature set. When enabled, it prevents software access to user data on the drive until one or two user-defined passwords are provided.
Boot Sectors Protection	MBR and GPT sectors of the hard drive are critical to booting the operating system. By saving the MBR or GPT data (depending on the how the OS was installed), the BIOS will be able to monitor for changes and allow the user to override them with the backup copy at boot-up.
Drive Protection System	DPS Access through F10 Setup during Boot (for SATA hard drive only)
	A diagnostic hard drive self- test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user
	Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and needs to be replaced
	The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain types of failures
SMART Technology (Self-Monitoring, Analysis and Reporting Technology)	Allows hard drives to monitor their own health and to raise flags if imminent failures were predicted
SMART I - Drive Failure Prediction	Predicts failures before they occur. Tracks fault prediction and failure indication parameters such as re-allocated sector count, spin retry count, calibration retry count
SMART II - Off-Line Data Collection	By avoiding actual hard drive failures, SMART hard drives act as "insurance" against unplanned user downtime and potential data loss from hard drive failure
SMART III - Off-Line Read Scanning with Defect Reallocation	IOEDC: I/O Error Detection Circuitry
SMART IV - End-to-End CRC for hard drives	Detects errors in Read/Write buffers on HDD cache RAM



Technical Specifications – After Market Options

AFTER MARKET OPTIONS

Graphics Solutions	Part Number
HP DisplayPort to HDMI True 4k Adapter	2JA63AA
HP HDMI Standard Cable Kit	T6F94AA
HP DisplayPort to VGA Adapter	AS615AA
HP DisplayPort to DVI-D Adapter	FH973AA
HP USB-C To DisplayPort Adapter	N9K78AA

Accessories	<u>Part Number</u>
HP Quick Release Bracket 2	6KD15AA
HP Single Monitor Arm	BT861AA

NOTE*: Must have purchased AIO with no stand to receive VESA mounting bracket kit, which is not after market.

Data Storage Drives	<u>Part Number</u>
HP PCIe NVME TLC M.2 256GB SSD	1CA51AA

Input Devices	<u>Part Number</u>
HP 125 Wired Keyboard	266C9AA
HP 225 Antimicrobial Wired Mouse and Keyboard Combo (China only)	286K3AA
HP 225 Wired Mouse and Keyboard Combo	286J4AA
HP 125 Wired Mouse	265A9AA
HP 128 Laser Wired Mouse	265D9AA
HP Wired Desktop 320K Keyboard	9SR37AA
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
HP USB Business Slim CCID SmartCard Keyboard	Z9H48AA
HP 655 Wireless Keyboard and Mouse Combo	4R009AA
HP 455 Programmable Wireless Keyboard	4R177AA
1. Only available in NA/EMEA regions	



Technical Specifications – After Market Options

System Memory	Part Number
HP 16GB DDR5-4800 SODIMM	TBD

Multimedia Devices	Part Number
HP S101 Speaker Bar	5UU40AA
HP Stereo 3.5mm Headset G2	428K7AA
HP Stereo USB Headset G2	428K6AA

Security Devices	Part Number
HP Business PC Security Lock v3 Kit	3XJ17AA
HP Keyed Cable Lock 10mm	T1A62AA
HP Master Keyed Cable Lock 10mm	T1A63AA
HP Sure Key Cable Lock	6UW42AA

I/O Devices	<u>Part Number</u>
HP USB to Serial Port Adapter	J7B60AA
HP USB-C to Display Port Adapter	N9K78AA
HP USB Type-C Extension Cable Kit (5M)	9JH45AA

NOTE: For more detail on HP I/O Devices please refer to the HP FLEX IO Option Cards QuickSpecs. URL is: http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06042607



Change Log

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Date	Version History	Action	Description of Change	
	From v1 to v2			
	From v2 to v3			
	From v3 to v4			
	From v4 to v5			
	From v5 to v6			
	From v6 to v7			
	From v6 to v7			
	From v8 to v9			
	From v9 to v10			

