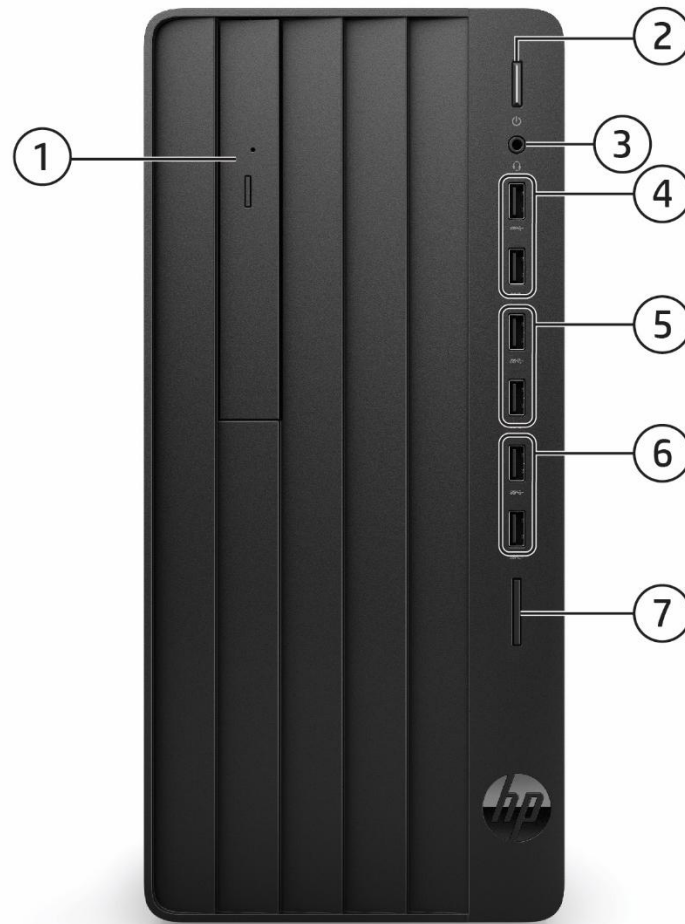


Overview

HP Pro Tower 280 G9 PCI Desktop PC



1. Slim-height Bay - supporting an optical disk drive (Optional)
2. Power Button
3. Combo jack, Headphone/ Microphone
4. (2) SuperSpeed USB 5Gbps signaling rate port¹
5. (2) SuperSpeed USB 10Gbps signaling rate port¹
6. (2) SuperSpeed USB 5Gbps signaling rate port¹
7. SD Card Reader (Optional)

Not shown

Slots

- (1) PCI Express 4.0 x16²
- (1) PCI Express 3.0 x1
- (1) PCI³
- (1) M.2 for WLAN
- (1) M.2 2242/2280 storage

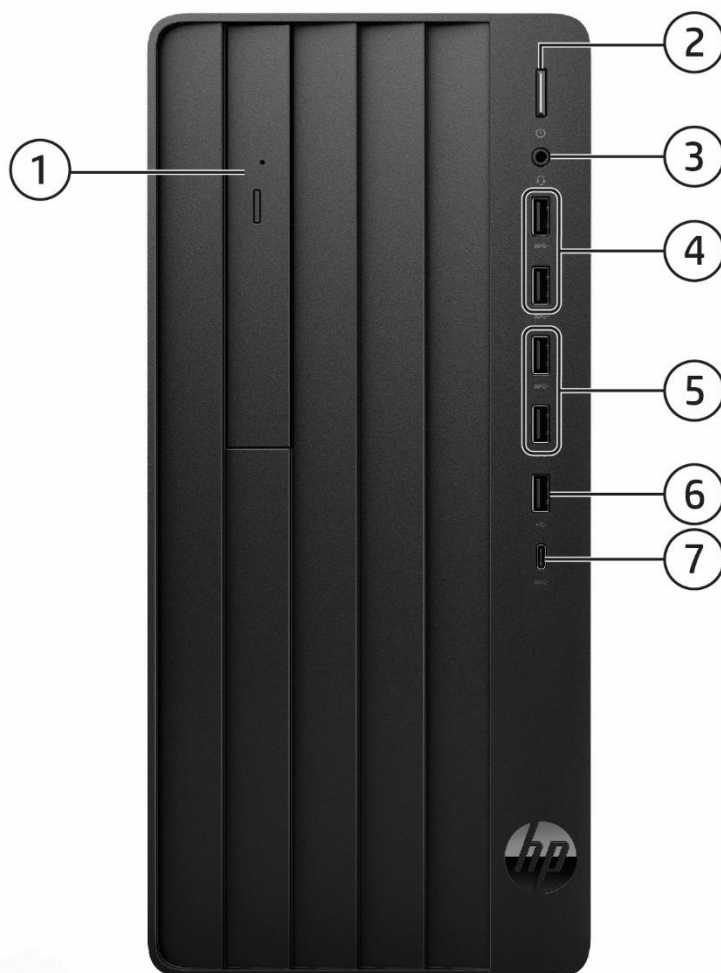
Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay

1. SuperSpeed USB 10Gbps = USB 3.2 Gen2. SuperSpeed USB 5Gbps = USB 3.2 Gen1.
2. Support discrete graphic cards and storage devices only.
3. Available on select skus only.

Overview

HP Pro Tower 280 G9 PCI Desktop PC (Intel 13th Gen)



1. Slim-height Bay - supporting an optical disk drive (Optional)
2. Power Button
3. Combo jack, Headphone/ Microphone
4. (2) SuperSpeed USB 5Gbps signaling rate port¹
5. (2) SuperSpeed USB 10Gbps signaling rate port¹
6. (1) USB 2.0 port ¹
7. (1) USB-C 3.2 G1 (5G)

Not shown

Slots

- (1) PCI Express 4.0 x16
- (1) PCI Express 3.0 x1
- (1) PCI
- (1) M.2 for WLAN
- (1) M.2 2242/2280 storage

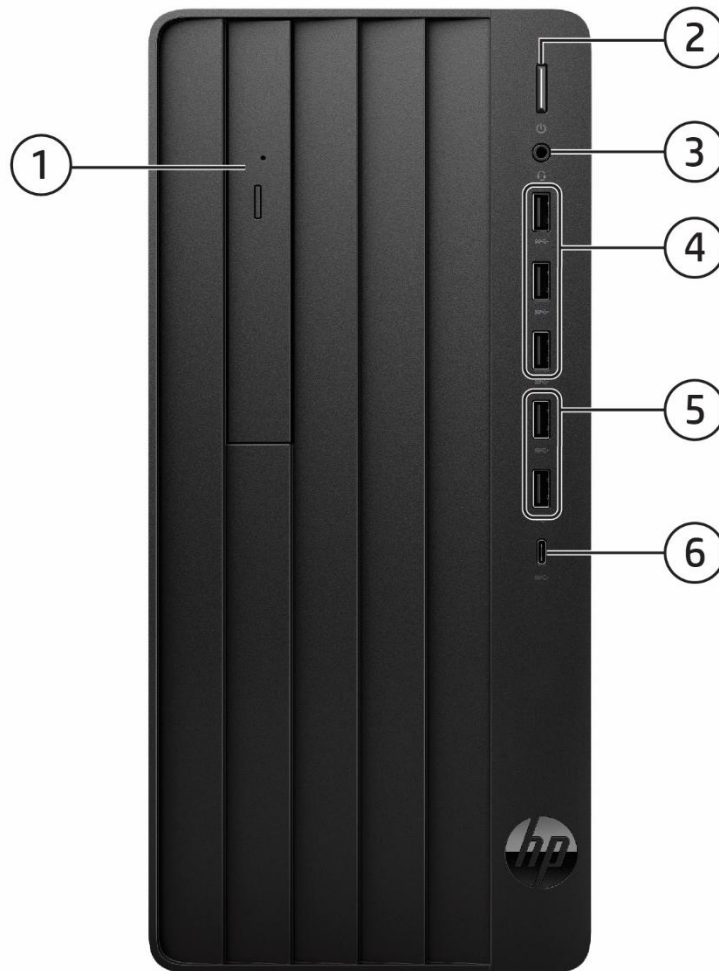
Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay

1. SuperSpeed USB 10Gbps = USB 3.2 Gen2. SuperSpeed USB 5Gbps = USB 3.2 Gen1.

Overview

HP Pro Tower 280 G9 PCI Desktop PC (Intel 14th Gen)



1. Slim-height Bay - supporting an optical disk drive (Optional)
2. Power Button
3. Combo jack, Headphone/ Microphone
4. (3) SuperSpeed USB 5Gbps signaling rate port¹
5. (2) SuperSpeed USB 10Gbps signaling rate port²
6. (1) USB-C 3.2 G1 (5G)

Not shown

Slots

- (1) PCI Express 4.0 x16
- (1) PCI Express 3.0 x1
- (1) PCI
- (1) M.2 for WLAN
- (2) M.2 2242/2280 storage

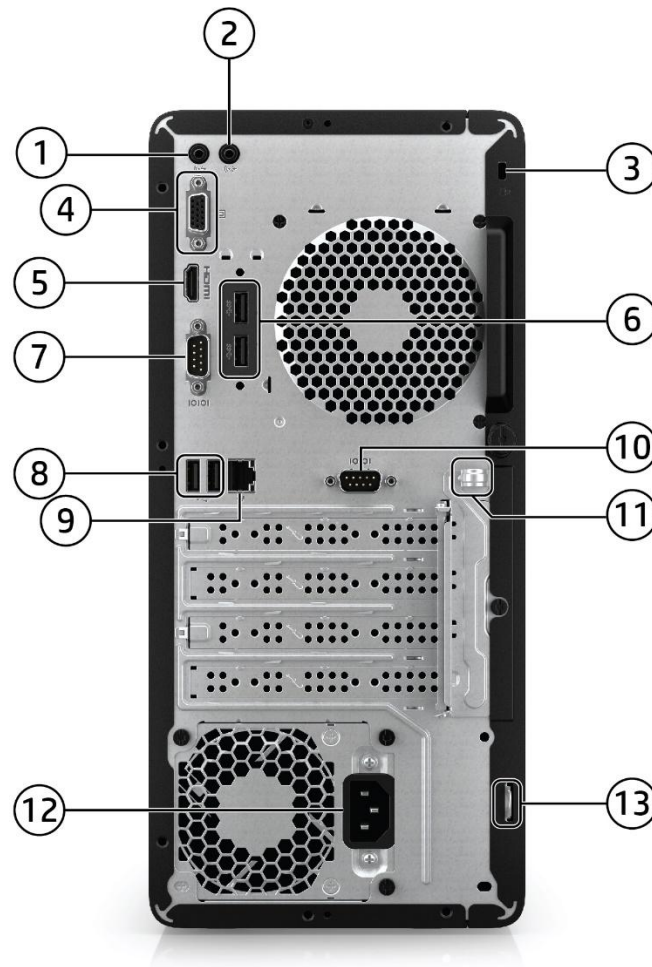
- 1. SuperSpeed USB 5Gbps = USB 3.2 Gen1.
- 2. SuperSpeed USB 10Gbps = USB 3.2 Gen2.

Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay

Overview

HP Pro Tower 280 G9 PCI Desktop PC



- | | |
|---|---------------------------------------|
| 1. Audio Line out | 7. Serial Port ¹ |
| 2. Audio Line in | 8. Connector (2) USB 2.0 port |
| 3. Standard lock slot | 9. RJ-45 Network |
| 4. VGA Port | 10. Serial Port (Optional) |
| 5. HDM Port | 11. Integrated accessories cable lock |
| 6. Connector (2) USB 2.0 port (Optional) ¹ | 12. Power Cord Connector ² |
| | 13. Padlock Loop |

Not shown

- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PClex1 slot)
- (1) 4 Serial Port (Optional via PClex1 slot)³
- (1) Internal Speaker (Optional)
- (1) Intrusion Sensor (Optional)

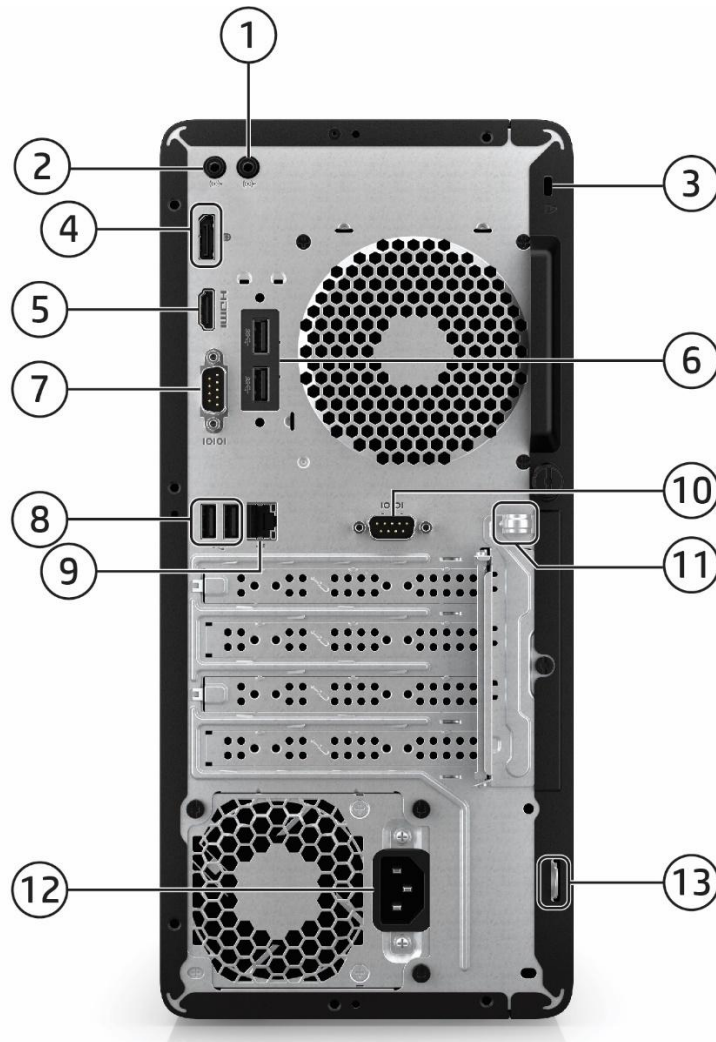
1. Available on select skus only.

2. Power cord connector will be in different position, depends on which power supply configured.

3. Available in select countries only.

Overview

HP Pro Tower 280 G9 PCI Desktop PC (Intel 13th Gen)



- | | |
|---|---------------------------------------|
| 1. Audio Line out | 7. Serial port ¹ |
| 2. Audio Line in | 8. Connector (2) USB 2.0 port |
| 3. Standard lock slot | 9. RJ-45 Network |
| 4. DisplayPort 1.4a (supports DSC) | 10. Serial port (optional) |
| 5. HDMI 1.4b Port | 11. Integrated accessories cable lock |
| 6. Connector (2) USB 2.0 port (optional) ¹ | 12. Power cord connector |
| | 13. Padlock loop |

Not shown

Slots

- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PCIe x1 slot)
- (1) 4 Serial Port (Optional via PCIe x1 slot)²
- (1) Internal Speaker (Optional)
- (1) Intrusion Sensor (Optional)

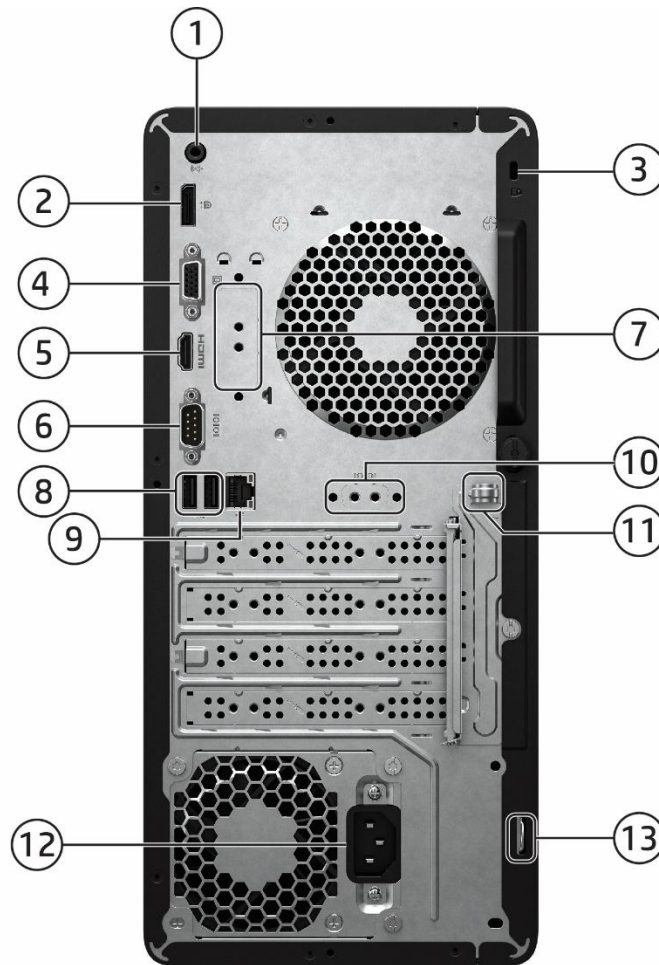
Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay

1. Power cord connector will be in different position, depends on which power supply configured.
2. Available in select countries only.

Overview

HP Pro Tower 280 G9 PCI Desktop PC (Intel 14th Gen)



- | | |
|------------------------------------|---|
| 1. Audio Line out/Line out | 7. Connector (2) USB 2.0 port (optional) ¹ |
| 2. DisplayPort 1.4a (supports DSC) | 8. Connector (2) USB 2.0 port |
| 3. Standard lock slot | 9. RJ-45 Network |
| 4. VGA | 10. Serial port (optional) |
| 5. HDMI 1.4b Port | 11. Integrated accessories cable lock |
| 6. Serial port ¹ | 12. Power cord connector |
| | 13. Padlock loop |

Not shown

Slots

- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PCIe¹ slot)
- (1) 4 Serial Port (Optional via PCIe¹ slot)²
- (1) Internal Speaker (Optional)
- (1) Intrusion Sensor (Optional)

Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay

- 1. Power cord connector will be in different position, depends on which power supply configured.
- 2. Available in select countries only.

Overview

AT A GLANCE

- Windows 11 Pro 64, Win 11 Home 64, or FreeDOS.
- Intel® H770¹ chipset supporting Intel® 12th or 13th processors¹ featuring Intel® UHD Graphics.
- Supports an optional discrete graphics card.
- Integrated 10/100/1000 Ethernet Controller or Realtek RTL8821CE-CG 802.11 a/b/g/n/ac (1x1) Wi-Fi5 and Bluetooth® 4.2 Wireless Card or Realtek RTL8822CE-CG 802.11 a/b/g/n/ac (2x2) Wi-Fi5 and Bluetooth® 5.0 Wireless Card or Realtek RTL8852BE 802.11 a/b/g/n/ac/ax (2x2) Wi-Fi6 and Bluetooth® 5.3 Wireless Card.
- Up to 64GB DDR5-5600 Unbuffered Memory (UDIMM).
- Independent monitor support via VGA and HDMI interfaces.
- TPM2.0 support (PCI version support dTPM, and the non-PCI version support fTPM)¹.
- Supports both Hard Disk Drives and PCIe® NVMe™ M.2 SSD or PCIe® NVMe™ TLC M.2 SSD.
- Up to 10 USB Ports (including native 4 SuperSpeed USB 5Gbps signaling rate ports and 2 SuperSpeed USB 10Gbps signaling rate ports and 2 USB 2.0 ports).
- 180W/350W/500W 90% HE power supply and 260W 92% HE power supply.
- Security cable lock supported (sold separately).
- Intrusion sensor supported (Optional).
- Optional HP Services available²; terms and conditions vary by country; certain restrictions and exclusions apply.

1. Available on select skus only.

2. HP Services are optional. Service levels and response times for HP Care Services 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.

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

PRODUCT NAME

HP Pro Tower 280 G9/G9 PCI/G9 E PCI Desktop PC

OPERATING SYSTEM

Preinstalled	Windows 11 Pro ¹
	Windows 11 Home - HP recommends Windows 11 Pro for Business ¹
	Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business ¹
	FreeDOS

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

Standard Features and Configurable Modules

PROCESSORS

	13th Gen PCI	14th Gen PCI	12th Gen Non-PCI	13th /14th Gen Non-PCI
12 th Gen Processor	X	X	X	
13 th Gen Processor	X	X		X
14 th Gen Processor	X	X		X

Intel® Celeron® Processors^{1,2}

CPU Intel Celeron G6900 Dual Core 3.4GHz 3200MHz 46W (3.4GHz, 4MB cache, 2 cores).

Intel® Core™ 300 with Intel UHD Graphics 710 (3.9 GHz P-core base frequency, 6 MB L3 cache, 2 P-cores, 4 threads).

Intel® Pentium® Processors^{1,2}

CPU Intel Pentium Gold G7400 Dual Core 3.7GHz 3200MHz 46W (3.7GHz, 6MB cache, 2 cores).

Intel 12th Processors

Intel® Core™ i3¹

CPU Intel Core i3-12100 4C 3.3GHz 3200MHz 60W (3.3GHz, turbo up to 4.3GHz, 12MB cache, 4 cores).

Intel® Core™ i5¹

CPU Intel Core i5-12400 6C 2.5GHz 3200MHz 65W (2.5GHz, turbo up to 4.4GHz, 18MB cache, 6 cores).

CPU Intel Core i5-12500 6C 3.0GHz 3200MHz 65W (3.0GHz, turbo up to 4.6GHz, 18MB cache, 6 cores).

Intel® Core™ i7¹

CPU Intel Core i7-12700 12C 2.1GHz 3200MHz 65W (2.1GHz, Up to 4.8GHz with Intel® Turbo Boost², 25MB cache, 12 cores).

Intel 13th Processors

Intel® Core™ i3¹

CPU Intel Core i3-13100 4C 3.4GHz 3200MHz 60W (3.4GHz, turbo up to 4.5GHz, 12MB cache, 4 cores).

Intel® Core™ i5¹

CPU Intel Core i5-13400 10C 2.5GHz 3200MHz 65W (2.5GHz, turbo up to 4.6GHz, 20MB cache, 10 cores).

CPU Intel Core i5-13500 14C 2.5GHz 3200MHz 65W (2.5GHz, turbo up to 4.8GHz, 24MB cache, 14 cores).

Intel® Core™ i7¹

CPU Intel Core i7-13700 16C 2.1GHz 3200MHz 65W (2.1GHz, Up to 5.2GHz with Intel® Turbo Boost², 30MB cache, 16 cores).

Standard Features and Configurable Modules

Intel 14th Processors

Intel® Core™ i3¹

Intel® Core™ i3-14100 with Intel UHD Graphics 730 (3.5 GHz P-core base frequency, up to 4.7 GHz P-core Max Turbo frequency, 12 MB L3 cache, 4 P-cores, 8 threads).

Intel® Core™ i5¹

Intel® Core™ i5-14600 with Intel UHD Graphics 770 (2.0 GHz E-core base frequency, 2.7 GHz P-core base frequency, up to 3.9 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology.

Intel® Core™ i5-14500 with Intel UHD Graphics 770 (1.9 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology.

Intel® Core™ i5-14400 with Intel UHD Graphics 730 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.5 GHz E-core Max Turbo frequency, up to 4.7 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads).

Intel® Core™ i7¹

Intel® Core™ i7-14700 with Intel UHD Graphics 770 (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 33 MB L3 cache, 8 P-cores and 12 E-cores, 28 threads), supports Intel® vPro® Technology.

1. 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. 64-bit computing system required. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

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.

Standard Features and Configurable Modules

CHIPSET

Intel® H770 Chipset

GRAPHICS

	13th Gen PCI	14th Gen PCI	12th Gen Non-PCI	13th /14th Gen Non-PCI
Intel Arc A380 6GB GDDR6 GFX	X	X		X
AMD Radeon RX 6300 2GB GDDR6 GFX	X	X	X	X
NVIDIA GeForce RTX 4060 8GB GDDR6 GFX	X	X		X
NVIDIA GeForce RTX 5060 8 GB GDDR7 FH PCIe x16 Graphics	X**	X**	X**	X**

Integrated^{1,2}

Intel® UHD
Graphics 770
Graphics 730
Graphics 710

Discrete Graphics

Intel Arc A380 graphic (6GB GDDR6)
AMD Radeon™ RX 6300 Graphics (2GB GDDR6)
NVIDIA® GeForce RTX 4060 Graphics (8GB GDDR6)
NVIDIA GeForce RTX 5060 8 GB GDDR7 FH PCIe x16 Graphics**

1. HD content required to view HD images.
2. Integrated Intel software is available on select models only and requires separately purchased projector, tv or computer monitor with an integrated or external receiver. External receivers connect to the projector, tv or computer monitor via a standard VGA, HDMI cable, also sold separately.
***NOTE:** Available in select countries only.
****NOTE:** Not available for some SKU when select i3-12100.

Standard Features and Configurable Modules

MEMORY

	13th Gen PCI	14th Gen PCI	12th Gen Non-PCI	13th /14th Gen Non-PCI
DDR4 3200	X		X	X
DDR5 4800		X		
DDR5 5600		X		

Form Factor	Type	Maximum	# of Slots
Tower	DDR4 3200	64 GB capacity	2 DIMM ¹
4GB DDR4-3200 UDIMM NECC (1x4GB)			
8GB DDR4-3200 UDIMM NECC (1x8GB)			
8GB DDR4-3200 UDIMM NECC (2x4GB) ²			
16GB DDR4-3200 UDIMM NECC (1x16GB)			
16GB DDR4-3200 UDIMM NECC (2x8GB) ²			
32GB DDR4-3200 UDIMM NECC (1x32GB)			
32GB DDR4-3200 UDIMM NECC (2x16GB) ²			
64GB DDR4-3200 UDIMM NECC (2x32GB) ²			

1. Memory modules support data transfer rates up to 2933 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

2. Memory speed 3200 MT/s can be achieved via two UDIMMs per channel (2DPC) when populated with the same part number.

NOTE: DDR4-2933 UDIMM is only available for 10th Gen i7 processor.

Form Factor	Type	Maximum	# of Slots
Tower	DDR5 5600/4800	64 GB capacity	2 DIMM ¹
8GB DDR5-5600 UDIMM NECC (1x8GB)			
8GB DDR5-4800 UDIMM NECC (1x8GB) ²			
16GB DDR5-5600 UDIMM NECC (1x16GB)			
16GB DDR5-4800 UDIMM NECC (1x16GB)			
16GB DDR5-5600 UDIMM NECC (2x8GB) ²			
16GB DDR5-4800 UDIMM NECC (2x8GB) ²			
32GB DDR5-5600 UDIMM NECC (1x32GB)			
32GB DDR5-4800 UDIMM NECC (1x32GB)			
32GB DDR5-5600 UDIMM NECC (2x16GB) ²			
32GB DDR5-4800 UDIMM NECC (2x16GB) ²			
64GB DDR5-5600 UDIMM NECC (2x32GB) ²			
64GB DDR5-4800 UDIMM NECC (2x32GB) ²			

1. Memory modules supporting data transfer rates up to 5600/MTs requires Intel® Core™ i5-1x600 or i7 CPUs, with other CPUs, memory supports data transfer rates up to 4800 MT/s. When select the WLAN card, the memory modules support data transfer rates up to 4400/MTs

2. Memory speed 5200 MT/s can be achieved when dual-rank (2R) memory UDIMMs when populated with the same part number.

Standard Features and Configurable Modules

STORAGE

NOTE: Starting from November 1st, 2023, all shipments will require Windows to be installed when selecting a SSD. HDD can only be configured as additional data drives and not as the boot drive.

SATA3 - 3.5" or 2.5" 6Gb/s HDDs

2TB 7200 RPM SATA Hard Disk Drive

1TB 7200 RPM SATA Hard Disk Drive

500GB 7200 RPM SATA Hard Disk Drive

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.

Solid State Drives

256GB* M.2 NVMe

512GB* M.2 NVMe

1TB* M.2 NVMe

128GB* M.2 2230 PCIe NVMe*

128GB* M.2 2280 PCIe NVMe Three Layer Cell SSD

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

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

1TB* 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.

***NOTE:** Available in select countries only.

SD Card Reader¹

SD/SDHC/SDXC SD Card Reader

1. Optional per configuration and available in select countries only.

OPTICAL DISC DRIVES

DVD-ROM 9.5mm

DVD-Writer¹ 9.5mm

1. HD-DVD disks cannot be played on this drive. No support for DVD-RAM. 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.

Standard Features and Configurable Modules

NETWORKING¹

Ethernet (RJ-45)

Integrated 10/100/1000M GbE LAN

Network Adapter Intel FoxPond1 I225-T1 2.5GbE

Wi-Fi® and Bluetooth®

Realtek RTL8852BE 802.11 a/b/g/n/ac/ax (2x2) Wi-Fi6 and Bluetooth® 5.3 Wireless Card

Realtek RTL8822CE-CG 802.11 a/b/g/n/ac (2x2) Wi-Fi5 and Bluetooth® 5.0 Wireless Card

Realtek RTL8821CE-CG 802.11 a/b/g/n/ac (1x1) Wi-Fi5 and Bluetooth® 4.2 Wireless Card

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.

NOTE: Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited.

AUDIO / MULTIMEDIA

Realtek ALC3867-CG

Integrated Hi-Definition Audio

Combo Jack, Headphone / Microphone

Line-in / Line-out (3.5mm)

KEYBOARDS AND POINTING DEVICES¹

Keyboard

HP USB 320K Keyboard

HP 125 BLK Wired Keyboard

HP 125 Antimicrobial Wired Keyboard (china only)

HP PS/2 Business Slim Keyboard (for machine configured with PS/2 port)

Mouse

HP PS/2 mouse (for machine configured with PS/2 port)

HP Wired Desktop 320M mouse

HP 125 Wired Mouse

HP 128 Laser Wired Mouse

HP 125 Antimicrobial Wired Mouse (china only)

1. Keyboards and mouse are optional or add-on features. A keyboard and mouse are required for this device. If you do not already have a keyboard and mouse, please refer to a list of compatible keyboards on the "Recommended Accessories" page.

Standard Features and Configurable Modules

PORTS

Front I/O	13th Gen PCI	14th Gen PCI	12th Gen Non-PCI	13th /14th Gen Non-PCI
ODD (option)	X	X	X	X
Power Button	X	X	X	X
Combo jack, Headphone/ Microphone	X	X	X	X
SD card reader (option)				
SuperSpeed USB 5Gbps signaling rate port	(2)	(3)	(4)	(4)
SuperSpeed USB 10Gbps signaling rate port	(2)	(2)		
USB 2.0 port	(1)			
USB-C 3.2 G1 (5G)	(1)	(1)		

Intel 13th Gen PCI

Front

Slim-height Bay - supporting an optical disk drive (Optional)

Power Button

Combo jack, Headphone / Microphone

(2) SuperSpeed USB 10Gbps signaling rate port*

(2) SuperSpeed USB 5Gbps signaling rate port*

Intel 14th Gen PCI

Front

Slim-height Bay - supporting an optical disk drive (Optional)

Power Button

Combo jack, Headphone / Microphone

(2) SuperSpeed USB 10Gbps signaling rate port*

(3) SuperSpeed USB 5Gbps signaling rate port*

(1) USB-C®*

Intel 12th, 13th, 14th Gen

Front

Slim-height Bay - supporting an optical disk drive (Optional)

Power Button

Combo jack, Headphone / Microphone

(4) SuperSpeed USB 5Gbps signaling rate port*

Not shown

(1) PCI Express 4.0 x16

(1) PCI Express 3.0 x1

(1) Full-height PCI (Available on selected sku)

(1) M.2 for WLAN

(1) M.2 2230/2280 storage

Standard Features and Configurable Modules

Rear

Audio Line out
Audio Line in
HDMI 1.4b Port
VGA Port
DisplayPort 1.4a (supports DSC)*
Serial Port (Optional on selected sku)
2nd Serial Port (Optional)
Standard Lock Slot
(4) USB 2.0 port (Optional on selected sku)
(2) USB 2.0 port (Optional on selected sku)
RJ-45 Network connector
Power cord connector
Padlock loop
Integrated accessories cable lock

Not shown

(1) PS/2 Port (Optional on selected sku)
(1) Parallel Port (Optional via PCIe1 slot)
(1) 4x Serial port (Optional via PCIe1 slot)*
(1) Internal Speaker (Optional)
(1) Intrusion Sensor (Optional)

NOTE*: Available in select countries only

NOTE*: SuperSpeed USB 10Gbps = USB 3.2 Gen2. SuperSpeed USB 5Gbps = USB 3.2 Gen1

BAYS

(1) 9.5mm external slimline ODD bay (Optional)
(1) 3.5" internal HDD or bay
(1) 3.5" internal HDD bay (share bay with caddy)

Standard Features and Configurable Modules

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Security and Protection

McAfee® LiveSafe™¹

Productivity

Microsoft 365²

Xerox® DocuShare® (90 days free trial offer)³

ODD Playback

sMedio True DVD for HP

Movies

Netflix⁴

App Stores and Content Purchasing

Amazon⁴

HP Utilities and Support

HP Documentation

HP Audio Switch⁵

HP Support Assistant

myHP

BTB

HP Setup Integrated OOBE

Hardware Enabling Drivers or software utility

HP System Event Utility

1. Free 1-year subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration
 2. Sold separately and requires Internet access for activation.
 3. Simply sign up and start using Xerox® DocuShare® Go. No credit card. No obligation. Data will become unavailable unless a subscription is entered before the end of the 90 day free trial period. See visit <https://http://www.xerox.com/docusharego> for details.
 4. Internet access required and not included.
 5. Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience.
- *NOTE:** Available in Latin America countries only.

POWER SUPPLY¹

180 W

EPA90 (Gold) +12V

260W

EPA92 (Platinum) +12V

350 W

EPA90 (Gold) Power Supply

500 W

EPA90 (Gold) Full range 115V/230V

1. All power supplies are not available in every region.

Standard Features and Configurable Modules

DIMENSIONS AND WEIGHT

Dimensions

6.12 x 11.93 x 13.28 in
(155 x 303 x 337 mm)

Weight

10.4 lbs / 4.7 kg

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: 5° to 35° C ¹ Non-operating: -30° to 60° C ¹
Relative Humidity	Operating: 5% to 90% (non-condensing at ambient) Non-operating: 5% to 90% (non-condensing at ambient)
Maximum Altitude (unpressurized)	Operating: 5000 m Non-operating: 50000ft (15240 m)

1. 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.

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT Gold* or EPEAT Silver** registered in the United States. See http://www.epeat.net for registration status in your country. • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Commission Regulation (EC) No 617/2013 (ErP Lot 3) Note*: Only available on 13th Gen CPU Legacy SKU, except Japan. Note**: Available on all 12th Gen CPU SKUs, 13th Gen non-legacy SKUs, and 13th Gen legacy SKUs for Japan.
Sustainable Impact Specifications	• Product Carbon Footprint (hp.com) • 29.8% post-consumer recycled plastic • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable.



Standard Features and Configurable Modules

	• Bulk packaging available		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a “Typically Configured Desktop”.		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	16.34 W	17.06 W	16.41 W
Normal Operation (Long idle)	16.31 W	16.04 W	16.15 W
Sleep	1.74 W	1.73 W	1.76 W
Off	0.32 W	0.33 W	0.32 W
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.		
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	55.72 BTU/hr	58.17 BTU/hr	55.96 BTU/hr
Normal Operation (Long idle)	55.62 BTU/hr	54.70 BTU/hr	55.07 BTU/hr
Sleep	5.93 BTU/hr	5.90 BTU/hr	6.00 BTU/hr
Off	1.09 BTU/hr	1.13 BTU/hr	1.09 BTU/hr
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)	Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	3.6	25	
Fixed Disk – Random writes	3.7	26	
Optical Drive – Sequential reads	3.8	26	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.		
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium		

Standard Features and Configurable Modules

Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. • This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. • This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). • This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the Gold level, see http://www.epeat.net. • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product contains 28.2% post-consumer recycled plastic (by wt.) • This product is 92.9% recycle-able when properly disposed of at end of life.		
Packaging Materials	External:	PAPER/Paperboard	1220 g
	Internal:	PAPER/Molded Pulp	580 g
		PLASTIC/Polyethylene low density - LDPE	40 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 35.0% recycled content.		
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.		
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): • Asbestos • Certain Azo Colorants • 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 • 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)		

Standard Features and Configurable Modules

	• 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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

SERVICE AND SUPPORT

On-site Warranty¹: Available three-year (3-3-3) or one-year (1-1-1) limited warranty (varies by country) delivers on-site, next business day² service for parts and labor and complimentary limited technical support³. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack⁴. To choose the right level of service for your HP product, visit HP Care Pack Central: <http://www.hp.com/go/cpc>.

1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

2: 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.

3: Technical support applies only to HP-configured and third-party HP qualified hardware and software.

4: 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.

Technical Specifications - Graphics

GRAPHICS

Intel® UHD Graphics (integrated)	
Graphics Controller	Integrated
DisplayPort™	Multimode capable; supports HDCP, Display Port Audio, HBR2 link rates and Multi-Stream Technology for a maximum of 3 displays connected to any output controlled by Intel® Graphics.
HDMI (on board/optional)	Supports HDMI 1.4 features Supports HDCP 2.3 Supports audio over HDMI
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 16 bits/color
Graphics/Video API Support	HEVC 10b Enc/12b Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12
Max. Resolution (HDMI)	4096 x 2160@30Hz
Max. Resolution (DP)	4096 x 2304@30Hz
Note: The actual amount of maximum graphics memory can be less than the amounts listed above depending upon your computer's configuration. Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP Only supported on displays connected to the external DisplayPort™ connector.	

AMD Radeon™ RX 6300 2GB GDDR6 Graphics card

Engine Clock	Base: 1512 Mhz Boost: 2040 Mhz
Memory Size / Width	2GB / 32bits
Graphic Memory Type / Clock	512Mx 32 GDDR6, 1 pcs / 16Gbs
Max. Resolution (HDMI)	7680x4320@60Hz
Max. Resolution (DP)	7680x4320@120Hz
Multi Display Support	2 displays
HDCP Compliance	Yes
Rear I/O connectors (bracket)	HDMIx1+DPx1 (LP)
Cooling (active/passive)	Active
Total power consumption (W)	57W
Form-factor	X:160.2mm/Y:68.9mm/Z: 22.6mm PCB with single slot

Technical Specifications - Graphics

Intel® Arc A380 6 GB Graphics Card

Engine Clock	2150MHz
Frame Buffer Size / Width	6GB/96bit
Graphic Memory Type / Clock	GDDR6 ,3 pcs/15.5Gbps
Memory Type	512M x 32 GDDR6
Max. Resolution (HDMI)	4090x2160 @ 60Hz
Max. Resolution (DP)	7680x4300 @60Hz
Multi Display Support	4 displays
HDCP Compliance	Yes
Rear I/O connectors (bracket)	HDMI x3 +DPx3
Cooling (active/passive)	Active
Total power consumption (W)	75W

NVIDIA® GeForce RTX 4060 8GB Graphics Card

Engine Clock	1830Mhz
Memory Clock	17Gbps
Memory Size (width)	8GB (128-bit)
Memory Type	512M x 32 GDDR6
Max. Resolution (DP)	7680 x 4320@60Hz
Multi Display Support	7680 x 4320@60Hz
HDCP Compliance	Up to 4 displays
Rear I/O connectors (bracket)	Yes
Cooling (active/passive)	DPx3+ HDMIx1
Total power consumption (W)	Active fansink
PCB form-factor with bracket	115W

NVIDIA GeForce RTX 5060 8 GB GDDR7 FH PCIe x16 Graphics

Engine Clock	Base: 2280 MHz Boost: 2497 MHz
Frame Buffer Size / Width	8GB / 128bit
Graphic Memory Type / Clock	512Mx 32 GDDR7 @ 4pcs / 28Gps
Max. Resolution (HDMI)	4096x2160 x 36bpp@120Hz or 7680x4320 36bpp DSC @60Hz
Max. Resolution (DP)	3840x2160 x 30bpp @120Hz or 7680x4320 36bpp @60Hz
Multi Display Support	Up to 4 display
HDCP Compliance	Yes
Rear I/O connectors (bracket)	HDMIx1+ DPx3
Cooling (active/passive)	Active fansink with 4 pin fan control
Total power consumption (W)	145 W
Card dimension	ATX: (X:188mm/Y:111.15mm/Z: 38.0mm)

NOTE: 8 pins connector requires for RTX5060 with 400W PSU or 500W PSU

Technical Specifications – Optical Drives

STORAGE*

NOTE: Starting from November 1st, 2023, all shipments will require Windows to be installed when selecting a SSD. HDD can only be configured as additional data drives and not as the boot drive.

HP 2TB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive

Capacity	2TB
Rotational Speed	7,200 rpm
Interface	SATA 6Gb/s NCQ
Buffer Size	64MB
Logical Blocks	3,907,029,168
Seek Time	Read: <8.5 ms Write: <9.5 ms
Height	1.028 in/26.11 mm
Width	4.0 in/101.6 mm
Operating Temperature	32° to 140° F (0° to 60° C)

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.

1TB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive

Capacity	1TB
Rotational Speed	7,200 rpm
Interface	Serial ATA 3.0 (6.0 Gb/s)
Buffer Size	64MB
Logical Blocks	1,953,525,168
Seek Time	Single Track: 2.0 ms Average: 11 ms Full-Stroke: 21 ms
Height	1 in/2.54 cm
Width	Media diameter: 3.5 in/8.89 cm Physical size: 4 in/10.2 cm
Operating Temperature	41° to 131° F (5° to 55° C)

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.

500GB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive

Capacity	500GB
Rotational Speed	7,200 rpm
Interface	Serial ATA 3.0 (6.0 Gb/s)
Buffer Size	32MB
Logical Blocks	1,953,525,168
Seek Time	Single Track: 2.0 ms Average: 11 ms Full-Stroke: 21 ms

Technical Specifications – Optical Drives

Height	1 in/2.54 cm
Width	Media diameter: 3.5 in/8.89 cm Physical size: 4 in/10.2 cm
Operating Temperature	41° to 131° F (5° to 55° C)

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.

128GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight	< 10g
Capacity	128GB
Height	2.38mm
Length	80mm
Width	22mm
Interface	PCIe Gen4x4
Maximum Sequential Read	Up to 2800MB/s
Maximum Sequential Write	Up to 600MB/s
Logical Blocks	250,069,680
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	APST; ASPM L1.2; NVME spec 1.2

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	256GB
Height	2.38mm
Length	80mm
Width	22mm
Interface	PCIe Gen4x4
Maximum Sequential Read	Up to 2700MB/s
Maximum Sequential Write	Up to 1000MB/s
Logical Blocks	500,118,192
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	APST; ASPM L1.2; NVME spec 1.2

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.

Technical Specifications – Optical Drives

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

Drive Weight	< 10g
Capacity	512GB
Height	2.38mm
Length	80mm
Width	22mm
Interface	PCIe Gen4x4
Maximum Sequential Read	Up to 2900MB/s
Maximum Sequential Write	Up to 1100MB/s
Logical Blocks	1,000,215,216
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	APST; ASPM L1.2; NVME spec 1.2

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 SSD

Drive Weight	< 10g
Capacity	256GB
Height	2.38mm
Length	80mm
Width	22mm
Interface	PCIe Gen4x4
Maximum Sequential Read	Up to 1600MB/s
Maximum Sequential Write	Up to 780MB/s
Logical Blocks	500,118,192
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	APST; ASPM L1.2; NVME spec 1.2

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.

512GB M.2 2280 PCIe NVMe SSD

Drive Weight	< 10g
Capacity	512GB
Height	2.38mm
Length	80mm
Width	22mm
Interface	PCIe Gen4x4
Maximum Sequential Read	Up to 2200MB/s ±10%
Maximum Sequential Write	Up to 860MB/s
Logical Blocks	1,000,215,216

Technical Specifications – Optical Drives

Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	APST; ASPM L1.2; NVME spec 1.2

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.

128GB M.2 2230 PCIe NVMe SSD

Drive Weight	< 10g
Capacity	128GB
Height	2.3mm
Length	30mm
Width	22mm
Interface	PCIe NVMe
Maximum Sequential Read	Up to 1600MB/s
Maximum Sequential Write	Up to 780MB/s
Logical Blocks	290,069,680
Operating Temperature	0° to 70°C (32° to 158°F) [ambient temp]
Features	Pyrite

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.

Technical Specifications – Optical Drives

OPTICAL DISC DRIVES

HP 9.5mm Desktop G2 Slim DVD Writer Drive

Height	9.5 mm height	
Orientation	Either horizontal or vertical	
Interface type	SATA/ATAPI	
Disc recording capacity	Up to 8.5 GB DL or 4.7 GB standard	
Dimensions (W x H x D)	5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel	
Weight (max)	0.31 lb (140 g)	
Read Speeds	DVD-R DL	Up to 6X
	DVD+R	Up to 8X
	DVD+RW	Up to 8X
	DVD-R DL	Up to 6X
	DVD-R	Up to 8X
	DVD-RW	Up to 6X
	CD-R	Up to 24X
	CD-RW	Up to 10X
	DVD-RW, DVD+RW	Up to 8X
	DVD-R DL, DVD+R DL	Up to 8X
	DVD+R, DVD-R	Up to 8X
	DVD-ROM DL, DVD-ROM	Up to 8X
	CD-ROM, CD-R	Up to 24X
	CD-RW	Up to 24X
Access time (typical reads, including settling)	Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)	
	Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)	
	Stop Time 6 seconds (typical)	
Power	Source Slimline SATA DC power receptacle	
	DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p	
	DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)	
Environmental conditions (operating - non-condensing)	Temperature 41° to 122° F (5° to 50° C)	
	Relative Humidity 10% to 80%	
	Maximum Wet Bulb Temperature 84° F (29° C)	

Technical Specifications – Optical Drives

HP 9.5mm Desktop G2 Slim DVD-ROM Drive

Height	9.5 mm height
Orientation	Either horizontal or vertical
Interface type	SATA/ATAPI
Disc recording capacity	Up to 8.5 GB DL or 4.7 GB standard
Dimensions (W x H x D)	5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel
Weight (max)	0.31 lb (140 g)
Read Speeds	DVD-R DL Up to 6X DVD+R Up to 8X DVD+RW Up to 8X DVD+R DL Up to 6X DVD-R Up to 8X DVD-RW Up to 6X CD-R Up to 24X CD-RW Up to 10X DVD-RW, DVD+RW Up to 8X DVD-R DL, DVD+R DL Up to 8X DVD+R, DVD-R Up to 8X DVD-ROM DL, DVD-ROM Up to 8X CD-ROM, CD-R Up to 24X CD-RW Up to 24X
Access time (typical reads, including settling)	Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical) Stop Time 6 seconds (typical)
Power	Source Slimline SATA DC power receptacle DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)
Environmental conditions (operating - non-condensing)	Temperature 41° to 122° F (5° to 50° C) Relative Humidity 10% to 80% Maximum Wet Bulb Temperature 84° F (29° C)

Technical Specifications – Networking

NETWORKING

10/100/1000 NIC	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
	Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	Performance Features	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K
	Manageability	Wake-on-LAN from standby and hibernation (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
	Interface	PCIe + SMBus
	NIC Device Driver Name	PCIe GBE Ethernet Family Controller

Realtek RTL8821CE-CG 802.11 a/b/g/n/ac (1x1) Wi-Fi5 and Bluetooth® 4.2 Wireless Card

Wireless LAN Standards¹	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac 1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.	
Interoperability	Wi-Fi® certified modules	
Frequency Bands	802.11b/g/n	2.402 – 2.482 GHz NOTE: The FCC has declared products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 & 15.249 or otherwise disable those channels.
	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

Technical Specifications – Networking

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, and 80MHz)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security²	IEEE and 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 Cisco Certified Extensions, all versions through CCX4 and CCX Lite WAPI 2 Check latest software/driver release for updates on supported security features.
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power³	802.11b: +14dBm minimum 802.11g: +12dBm minimum 802.11a: +12dBm minimum 802.11n HT20(2.4GHz): +12dBm minimum 802.11n HT40(2.4GHz): +12dBm minimum 802.11n HT20(5GHz): +10dBm minimum 802.11n HT40(5GHz): +10dBm minimum 802.11ac VHT80(5GHz): +10dBm minimum 3. Maximum output power may vary by country according to local regulations.
Power Consumption	•Transmit mode2.0 W •Receive mode1.6 W •Idle mode (PSP)180 mW(WLAN Associated) •Idle mode50 mW(WLAN unassociated) •Connected Standby 10mW •Radio disabled8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode

Technical Specifications – Networking

Receiver Sensitivity ⁴	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 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).	
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth [®] communications	
Form Factors	PCI-Express M.2 MiniCard	
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm	
Weight	Type 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 – Radio OFF; LED White – Radio ON	
HP Integrated Module with Bluetooth [®] 4.0/4.1/4.2 Wireless Card Technology		
Bluetooth [®] Specification	4.0/4.1/4.2 Wireless Card 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	
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels	
	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)	
Transmit Power	The Bluetooth [®] component shall operate as a Class II Bluetooth [®] device with a maximum transmit power of + 4 dBm for BR and EDR.	

Technical Specifications – Networking

Receiver Sensitivity Legacy	
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Range	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Electrical Interface	USB 2.0 compliant
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software
Power Management Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Certifications Bluetooth® Profiles Supported	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management Certifications	Microsoft Windows ACPI, and USB Bus Support
Certifications Bluetooth® Profiles Supported	Bluetooth 4.1-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 Bluetooth 4.2 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)

Technical Specifications – Networking

Realtek RTL8822CE-CG 802.11 a/b/g/n/ac (2x2) Wi-Fi 5 and Bluetooth® 5.0 Wireless Card	
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 802.11i IEEE 802.11k 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)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security¹	• IEEE and Wi-Fi® 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 • WAPI 1 Check latest software/driver release for updates on supported security features.
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points

Technical Specifications – Networking

Output Power²	• 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 2. Maximum output power may vary by country according to local regulations.
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 Sensitivity³	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 3 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).
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm 2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8g 2. Type 1216: 1.3g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C) Non-operating: –40° to 176° F (–40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
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

Technical Specifications – Networking

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Card Technology	
Bluetooth Specification	4.0/4.1/4.2/5.0 Wireless Card 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 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-DHS) or 864 kbps symmetric (3-EVS)
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
Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management	ETS 300 328, ETS 300 826
Certifications	Low Voltage Directive IEC60950-1/IEC62368-1 UL, CSA, and CE Mark
Bluetooth® Profiles Supported	Bluetooth 4.1-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 Bluetooth 4.2 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)

Technical Specifications – Networking

Realtek RTL8852BE 802.11 a/b/g/n/ax (2x2) Wi-Fi 6 and Bluetooth® 5.3 Wireless Card	
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 802.11i IEEE 802.11k 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)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security¹	• IEEE and WiFi 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 • WAPI 1 Check latest software/driver release for updates on supported security features.
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
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Technical Specifications – Networking

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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
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Technical Specifications - Audio

HIGH DEFINITION AUDIO

Type	Integrated
HD Stereo Codec	Realtek ALC3867-CG
Audio I/O Ports	Front side Combo jack for supporting CTIA, Rear side Line-in/ Line-out/ Mic-in jacks
Internal Speaker Amplifier	2W class D mono amplifier for the internal speaker only. External speakers must be powered externally.
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 speaker.
HD Audio Codec	Realtek ALC3601
Sampling	Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1K/ 48 K/96K / 192K Hz for DAC and 44.1K/ 48K/ 96K/ 192K Hz Hz for ADC
Wavetable Syntheses	Yes
Analog Audio	Yes
# of Channels on Line-Out	Stereo
Internal Speaker	Yes
External Speaker Jack*	2W class D mono amplifier for the internal speaker only. External speakers must be powered externally.

NOTE*: Optional



Technical Specifications - Power

POWER SUPPLY

Operating Voltage Range	90 – 264 VAC
Rated Voltage Range	100-240V AC
Rated Line Frequency	50/60 HZ
Operating Line Frequency	47 – 63 Hz
Rated Input Current	180 W: <2.3A 260 W: ≦3.1A 350 W: <4A 500 W: <6A
Rated Input Current with Energy Efficient* Power Supply	180 W active PFC 87/90/87% efficient at 20/50/100% load (115 V) 88/92/88% efficient at 20/50/100% load (230 V); 350 W active PFC 87/90/87% efficient at 20/50/100% load (115 V) 88/92/88% efficient at 20/50/100% load (230 V) 500W active PFC 87/90/87% efficient at 20/50/100% load (115 V) 88/92/88% efficient at 20/50/100% load (230 V)
DC Output	+12 V
Current Leakage (NFPA 99: 2102)	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 Supply Fan	180 W/350 W: 70*25mm (linear type) 500 W: 70x25mm (PWM type)

Technical Specifications – Weights and Dimensions

WEIGHT AND DIMENSIONS

Chassis (W x D x H)	6.12 x 11.93 x 13.28 in (155 x 303 x 337 mm) (w/ bezel)
System Volume	15.1 L
System Weight*	10.4 lb / 4.7 kg
Packaged (H x W x D)	11.3 x 15.75 x 19.65 in 287 x 400 x 499 mm
Shipping Weight	17.64lb / 8 kg
Palletization Profile	6 units per layer 7layer max 42 per pallet Footprint -85.31x39.37x47.24 in (2167 x 1000 x1200 mm)

After-Market Options (availability may vary by region)

AFTERMARKET OPTIONS

Type	Description	Part #
Memory	HP 4GB DDR4-3200 DIMM	13L78AA
	HP 8GB DDR4-3200 DIMM	13L76AA
	HP 16GB DDR4-3200 DIMM	13L74AA
	HP 32GB DDR4-3200 DIMM	13L72AA
Storage	HP PCIe NVME TLC 256GB SSD M.2 Drive	1CA51AA
	HP PCIe NVME TLC 512GB SSD M.2 Drive	X8U75AA
	HP PCIe Gen 4 NVME TLC M.2 512GB SSD	406L8AA
	HP PCIe Gen 4 NVME TLC M.2 1TB SSD	406L7AA
	HP 500GB 7200PRM SATA 6.0Gb/s 3.5" Hard Drive	QK554AA
	HP 1TB 7200rpm SATA 6Gb/s 3.5" Hard Drive	QK555AA
Graphics	NVIDIA T400 4GB GDDR6 3mDP	5Z7E0AA
Security	HP Business PC Security Lock V3 Kit	3XJ17AA
	HP Keyed Cable Lock 10mm kit	T1A62AA
Cables/Adapters	HP HDMI Standard Cable Kit	T6F94AA
	HP USB to Serial Port Adapter	J7B60AA
	HP PCIe x1 Parallel Port Card	N1M40AA
Networking	Intel Ethernet I225-T1 GbE NIC Card	406L9AA
Input	HP Wired Desktop 320K Keyboard	9SR37AA
	HP Wired Desktop 320M Mouse	9VA80AA
	HP 125 Wired Keyboard	266C9AA
	HP 125 Wired Mouse	265A9AA
	HP 128 Laser Wired Mouse	265D9AA
	HP Wired Desktop 320MK Mouse and Keyboard Combo	9SR36AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA
Others	HP S101 Speaker bar	5UU40AA

Change Log

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Date of change:	Version History:	Change	Description of change:
September 13, 2024	From v1 to v2	Correction	Sustainable impact specifications recycled plastic % corrected
September 18, 2024	From V2 to V3	Update	Footnotes on back call outs images updated (Pages 4, 5 and 6)
November 1, 2024	From V3 to V4	Update	Display and HDMI ports / Intel® UHD Graphics (integrated) and RX 6300 graphic card tables updated
January 8, 2025	From V4 to V5	Update	Update to 2 M.2 2242/2280 storage for PCI Desktop PC (Intel 14th Gen)
June 26, 2025	From V5 to V6	Update	PSU requirements to include Gold or Platinum
July 31, 2025	From V6 to V7	Update	NVIDIA GeForce RTX 5060 added to Graphics sections
September 3, 2025	From V7 to V8	Update	Checkmark at 14th Gen processor for the 13th Gen PCI version
	From V8 to V9		
	From V9 to V10		
	From v10 to v11		
	From v11 to v12		
	From v12 to v13		
	From v13 to v14		