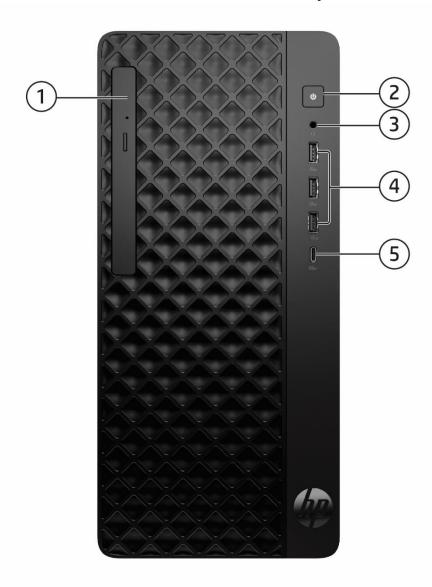
Overview

HP ProDesk 2 Tower G1i E Desktop PC



- 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. (1) USB-C 3.2 G2 (10G)²

Not shown

- (1) PCI Express 4.0 x16
- (1) PCI Express 3.0 x1
- (1) M.2 for WLAN
- (1) M.2 2280 storage
- 1. SuperSpeed USB 5Gbps = USB 3.2 Gen1
- 2. SuperSpeed USB 10Gbps = USB 3.2 Gen2.

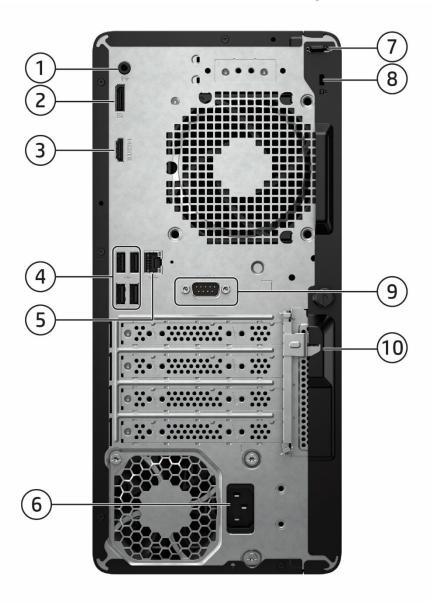
Bays

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



Overview

HP ProDesk 2 Tower G1i E Desktop PC



- 1. Audio Line-out- retask as Line-in
- 2. DisplayPort 1.4a
- 3. HDMI 1.4b
- 4. Connector (4) USB 2.0 port
- 5. RJ-45 Network

Not shown

- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PCIex1 slot)
- (1) 4 Serial Port (Optional via PCIex1 slot)2
- (1) Buzzer

- 6. Power cord conector
- 7. Padlock loop
- 8. Security cable lock slot
- 9. Serial port (optional)
- 10. Integrated accessories cable lock

Overview

AT A GLANCE

- Windows 11 Pro 64, Win 11 Home 64, Windows 11 Home Single Language, or FreeDOS.
- Intel® H7701 chipset supporting Intel® 13th or 14th processors1 featuring Intel® UHD Graphics.
- Supports an optional discrete graphics card.
- Integrated 10/100/1000 Ethernet Controller or Realtek RTL8852BE-VT 802.11ax 2x2 Wi-Fi 6 + Bluetooth 5.4 Wireless Card (802.11ax 2x2, supporting gigabit data rate), or Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth 5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate).
- Up to 64GB DDR5-5600 Unbuffered Memory (UDIMM).
- Independent monitor support via DP and HDMI interfaces.
- TPM2.0 support (fTPM)¹.
- Supports both Hard Disk Drives and PCle® NVMe™ M.2 SSD or PCle® NVMe™ TLC M.2 SSD.
- Up to 8 USB Ports (including native 3 SuperSpeed USB 5Gbps signaling rate ports and 1 USB Type-C® 10Gbps, and 4 USB 2.0 ports).
- 180W 90% HE power supply and 280W/ 400W/ 92% HE power supply.
- Security cable lock supported (sold separately).
- Optional HP Services available²; terms and conditions vary by country; certain restrictions and exclusions apply.

1. 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 ProDesk 2 Tower G1i E Desktop PC

OPERATING SYSTEM

Preinstalled Windows 11 Pro¹

Windows 11 Home - HP recommends Windows 11 Pro for Business¹

Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business¹

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

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).

Intel 14th Processors

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

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™ i5-14400 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™ 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™ 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.



Standard Features and Configurable Modules

CHIPSET

Intel® H770 Chipset

GRAPHICS

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)

- 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.



Standard Features and Configurable Modules

MEMORY

Form Factor	Туре	Maximum	# of Slots
Tower	DDR5 5600/4800	64 GB capacity	2 DIMM ¹
8GB DDR5-5600 UDIM	M (1x8GB)		
8GB DDR5-4800 UDIM	M (1x8GB)²		
16GB DDR5-5600 UDIN	ИМ (1x16GB)		
16GB DDR5-4800 UDIN	ИМ (1x16GB)		
16GB DDR5-5600 UDIN	ИМ (2x8GB) ²		
16GB DDR5-4800 UDIN	16GB DDR5-4800 UDIMM (2x8GB) ²		
32GB DDR5-5600 UDIMM (1x32GB)			
32GB DDR5-4800 UDIMM (1x32GB)			
32GB DDR5-5600 UDIMM (2x16GB) ²			
32GB DDR5-4800 UDIMM (2x16GB) ²			
64GB DDR5-5600 UDIMM (2x32GB) ²			
64GB DDR5-4800 UDIN	ИМ (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

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 2280 PCIe NVMe SSD
512GB M.2 2280 PCIe NVMe SSD
1TB M.2 2280 PCIe NVMe SSD
2TB M.2 2280 PCIe NVMe 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
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.

*NOTE: 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 FoxPond2 I226-T1 2.5GbE

Wi-Fi® and Bluetooth®

Realtek RTL8852BE-VT 802.11ax 2x2 Wi-Fi 6 + Bluetooth 5.4 Wireless Card (802.11ax 2x2, supporting gigabit data rate)
Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth 5.3 Wireless Card (802.11ax 2x2, supporting gigabit data rate)

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 ALC3602-CG codec Integrated Hi-Definition Audio Combo Jack, Headphone / Microphone Audio Line-out- retask as Line-in

KEYBOARDS AND POINTING DEVICES¹

Keyboard

HP 125 v2 AntiMic Wired Keyboard (China only) HP 320K v2 Keyboard HP Bus Slim v2 Smart Card Wired Keyboard HP 655 v2 Black Wireless Keyboard/Mouse Kit

Mouse

HP Wired 320M Mouse HP Wired 125 AntiM Mouse (China only) HP Black 125 Wired Mouse HP Wired 128 LSR Mouse HP USB Hardened Optical Wired Mouse

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

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

Power Button

Combo jack, Headphone / Microphone

- (3) SuperSpeed USB 5Gbps signaling rate port
- (1) USB-C[©] 10Gbps

Not shown

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

Rear

Audio Line-out-retask as Line-in

HDMI Port 1.4b

DisplayPort 1.4a

Serial Port (Option)

Slim Cable Lock

(4) USB 2.0 port

RJ-45 Network connector

Power cord connector

Padlock loop

Integrated accessories cable lock

Not shown

- (1) PS/2 Port (Option)
- (1) Parallel Port (Option via PCIex1 slot)
- (1) 4x Serial port (Option via PCIex1 slot)*
- (1) Buzzer

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

BAYS

- (1) 9.5mm external slimline ODD bay (Option)
- (1) 3.5" internal HDD with Bay (Optional)



Standard Features and Configurable Modules

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Security and Protection

McAfee - MLS1

HP Utilities and Support

HP Documentation HP Support Assistant

BTB

HP Setup Integrated OOBE (GDPR)

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 Power Supply 280W EPA92 Power Supply 400 W

EPA92 Power Supply

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



Standard Features and Configurable Modules

DIMENSIONS AND WEIGHT

Dimensions

6.10 x 12.13 x 13.27 in (155 x 308 x 337mm)

Weight

14.88 lbs / 6.75 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° C¹

Non-operating: -30° to 60° C1

Relative Humidity Operating: 15% to 80% (non-condensing at ambient)

Non-operating: 15% to 80% (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.

	T
Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may be
& declarations	labeled with one or more of these marks:
	IT ECO declaration
	• TUV ultra-low noise
	• US ENERGY STAR®
	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)
	Clean Energy Certificates (CEL)
	Minimum Energy Performance Standard (Korea/Vietnam/A/Z MEPS)
	Ukraine energy
	Commission Regulation (EC) No 617/2013 (ErP Lot 3)
Sustainable Impact	Product Carbon Footprint (hp.com)
Specifications .	46.10% 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
	Bulk packaging available
	- patr backading avaitable



Standard Features and Configurable Modules

System Configuration	The configuration used for the Ener		Noise Emissions data for the	
Energy Consumption (in accordance with US ENERGY STAR® test method)	Desktop model is based on a "Typic 115VAC, 60Hz	ally Configured Desktop". 230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	13.97 W	14.20 W	14.80 W	
Normal Operation (Long idle)	N/A	N/A	N/A	
Sleep	4.09 W	3.58 W	4.10 W	
Off	0.65 W	0.64 W	0.64 W	
Usat Dissipation*	NOTE: Energy efficiency data listed is for family. HP computers marked with the Environmental Protection Agency (EPA) offer ENERGY STAR® compliant configur featuring a hard disk drive, a high efficients.	ENERGY STAR® Logo are compliant ENERGY STAR® specifications for rations, then energy efficiency dat ency power supply, and a Microsof	with the applicable U.S. computers. If a model family does not a listed is for a typically configured PC t Windows® operating system.	
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	48 BTU/hr	49 BTU/hr	51 BTU/hr	
Normal Operation (Long idle)	N/A	N/A	N/A	
Sleep	14 BTU/hr	12 BTU/hr	14 BTU/hr	
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr	
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (LwAd, bels)		Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	3.2		25	
Fixed Disk – Random writes	3.5		26	
Optical Drive – Sequential reads	3.3			
Longevity and Upgrading Batteries	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. This battery(s) in this product comply with EU Directive 2006/66/EC			
	Batteries used in the product do not Mercury greater the1ppm by weight Cadmium greater than 20ppm by w Battery size: CR2032 (coin cell)	t		



Standard Features and Configurable Modules

Additional Information	• Thic produc	rt is in compliance with the Destrictions of Hazardous Subs	tancos (PoHS) directivo
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.		
		ct is in compliance with California Proposition 65 (State of	California; Safe Drinking Water
		forcement Act of 1986).	
		ct is in compliance with the IEEE 1680.1 (EPEAT) standard (at the Gold level, see
	http://www.		d - 15044460 - 1504042
		rts weighing over 25 grams used in the product are marke ct contains 28.2% post-consumer recycled plastic (by wt.)	a per 150 i 1469 and 150 i 043.
		ct is 92.9% recycle-able when properly disposed of at end	of life.
Packaging Materials	External:	PAPER/Corrugated	1048 g
		PAPER/Paperboard	108 g
		PAPER/Molded Pulp	676 g
		OTHER/other	58 g
		packaging material contains at least 0.0% recycled conten	
		ated paper packaging materials contains at least 35.0% re	
RoHS Compliance		olies fully with materials regulations. We were among the	
		n the European Union (EU) Restriction of Hazardous Subst	
		rldwide through the HP GSE. HP has contributed to the dev I Europe, as well as China, India, and Vietnam.	retopment of related
	_		
		he RoHS directive and similar laws play an important role i	
		of substances of concern. We have supported the inclusion	
		C, BFRs, and certain phthalates—in future RoHS legislationics products.	n that pertains to electrical
		·	
	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 re	egulations continue to evolve.
	To obtain a d	copy of the HP RoHS Compliance Statement, see HP RoHS p	position statement.
	<u> </u>		
Material Usage		does not contain any of the following substances in exces	ss of regulatory limits (refer to
		ral Specification for the Environment at hp.com/hpinfo/qlobalcitizenship/environment/pdf/qse.pc	15).
	• Asbestos	np.com/npiino/globalcitizensnip/environment/pui/gse.pc	ш).
	• Certain Azo	Colorants	
		minated Flame Retardants – may not be used as flame ret	ardants in plastics
	 Cadmium 	·	·
	 Chlorinated 	d Hydrocarbons	
	Chlorinated		
	Formaldeh		
		ed Diphenyl Methanes	
		nates and sulfates ead compounds	
		ead compoditas xide Batteries	
		ishes must not be used on the external surface designed t	o be frequently bandled or
	carried by th	_	o or inequently humated of
		leting Substances	
	 Polybromir 	nated Biphenyls (PBBs)	
	 Polybroming 	nated Biphenyl Ethers (PBBEs)	
		nated Biphenyl Oxides (PBBOs)	
	Polychloring	nated Biphenyl (PCB)	

Standard Features and Configurable Modules

	Polychlorinated Terphenyls (PCT)
	- Polychlorinated Terphenyts (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.
End-of-life Management and Recycling	 Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 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 0EM 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 3 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)	4K x 2K@30Hz	
Max. Resolution (DP)	4K x 2K@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 6GB GDDR6 Graphics card

Engine Clock 2150MHz
Frame Buffer Size / Width 6GB/96bit

Graphic Memory Type / ClockGDDR6 ,3 pcs/15.5GbpsMax. Resolution (HDMI)4096x2160 @ 60HzMax. Resolution (DP)7680x4320 @60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) DP x3 + HDMI x1

Cooling (active/passive)Active **Total power consumption (W)**75W



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 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.

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</td>

 Write: <9.5 ms</td>

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.



Height

Maximum Sequential Write

Logical Blocks

Technical Specifications – Optical Drives

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

Drive Weight< 10g</td>Capacity256GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen4x4Maximum Sequential ReadUp to 2700MB/s

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

Up to 1000MB/s

500,118,192

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 Three Layer Cell SSD

Drive Weight< 10g</td>Capacity512GBHeight2.38mmLength80mmWidth22mm

InterfacePCIE Gen4x4Maximum Sequential ReadUp to 2900MB/sMaximum Sequential WriteUp to 1100MB/sLogical Blocks1,000,215,216

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.

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

Capacity 1TB

InterfacePCIE Gen4x4Minimum Sequential Read6400 MB/s ±10%Minimum Sequential Write5000 MB/s ±10%Logical Blocks2,000,409,264

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.



Technical Specifications – Optical Drives

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

Capacity 2TB

InterfacePCIE Gen4x4Minimum Sequential Read6400 MB/s ±10%Minimum Sequential Write5000 MB/s ±10%Logical Blocks4,000,797,360FeaturesTRIM; 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.

256GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10a 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

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

1TB M.2 2280 PCIe NVMe SSD

Capacity 1TB

Interface PCIe NVMe

 $\begin{tabular}{llll} \textbf{Minimum Sequential Read} & 2200 \ MB/s \pm 10\% \\ \textbf{Minimum Sequential Write} & 1600 \ MB/s \pm 10\% \\ \textbf{Logical Blocks} & 2,000,409,264 \\ \textbf{Features} & TRIM; L1.2 \\ \end{tabular}$

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.

2TB M.2 2280 PCIe NVMe SSD

Capacity 2TB

Interface PCIe NVMe

 $\begin{tabular}{llll} \textbf{Minimum Sequential Read} & 5400 \ MB/s \pm 10\% \\ \textbf{Minimum Sequential Write} & 4700 \ MB/s \pm 10\% \\ \textbf{Logical Blocks} & 4,000,797,360 \\ \textbf{Features} & TRIM; L1.2 \\ \end{tabular}$



Technical Specifications – Optical Drives

OPTICAL DISC DRIVES

HP 9.5mm Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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) Up to 0.31 lb (140g) without bezel

Read Speeds DVD+R/-R/+RW/

> -RW/+R DL /-R DL Up to 8X 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)

Source Slimline SATA DC power receptacle Power

> 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)

HP 9.5mm Slim DVD Writer Drive

9.5 mm height Height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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) Up to 0.31 lb (140 g) Without bezel

Write 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 **Read Speeds**

> 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

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)



settling)

Technical Specifications – Optical Drives

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 Temperature 41° to 122° F (5° to 50° C)

(operating - non-condensing) 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	ACPI compliant – multiple power modes
Management	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

Intel I226-T1 2.5GbE Ethernet Network Adapter		
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 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 Disconnection: 25mW 100Mbps Full Run: 450mW 1000Mbp Full Run: 1000mW 2500Mbp Full Run: 4500mW 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

Realtek RTL8852BE-VT 802.11ax 2x2 Wi-Fi 6 + Bluetooth® 5.4 Wireless Card (802.11ax 2x2, supporting gigabit data rate)		
Wireless LAN Standards ¹	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11b IEEE 802.11t IEEE 802.11t IEEE 802.11h IEEE 802.11i IEEE 802.11i IEEE 802.11t IEEE 802.11t	
Interoperability	Wi-Fi certified modules	
Frequency Bands	802.11b/g/n/ax • 2.402 – 2.482 GHz 802.11a/n/ac/ax • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz	
Data Rates	 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: max 300Mbps 802.11ac: max 866.7Mbps 802.11ax: max 1201Mbps 	



Modulation	Direct Sequence Spread Spectrum, OFDM,
riouutation	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ²	 IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 certification IEEE 802.11i WAPI
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power ³	 802.11b: +18.5dBm minimum 802.11g: +17.5dBm minimum 802.11a: +18.5dBm minimum 802.11n HT20(2.4GHz): +15.5dBm minimum 802.11n HT40(2.4GHz): +14.5dBm minimum 802.11n HT20(5GHz): +15.5dBm minimum 802.11n HT40(5GHz): +14.5dBm minimum 802.11ac VHT80(5GHz): +11.5dBm minimum 802.11ax HE40(2.4GHz): +10dBm minimum 802.11ax HE80(5GHz): +10dBm minimum
Power Consumption	 Transmit mode:2.5 W Receive mode:2 W Idle mode (PSP) 180 mW (WLAN Associated) Idle mode:50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver 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 •802.11ax, MCS11(HE40): -57dBm maximum •802.11ax, MCS11(HE40): -54dBm maximum



Antenna type	High efficiency antenna with spatial diversity. Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230: 2.4 x 22.0 x 30.0 mm
Weight	1. Type 2230: 2.8g
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 Blu	netooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Technology
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 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.
Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
Bluetooth Software Supported Link Topology	Microsoft Windows Bluetooth Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249 ETSI 300 328, ETSI 301 893
	•



Technical Specifications – Networking

Bluetooth	Profiles	Supported
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Bluetooth 4.1-ESR 5/6/7 Compliance

LE Link Layer Ping

LE Dual Mode

LE Link Laver

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)

Bluetooth 5.1

ESR9/10 Compliance

LE Advertisement Extensions

Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

2Mbps LE

LE Long Range

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

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

- 2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
 - 3. Check latest software/driver release for updates on supported security features.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



	x2 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card
(802.11ax 2x2, supporting gigal	
Wireless LAN Standards ¹	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
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n/ax
	• 2.402 – 2.482 GHz
	802.11a/n/ac/ax
	• 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz
	• 5.47 – 5.725 GHz
	• 5.825 – 5.850 GHz
	• 5.955 – 6.415 GHz
	• 6.435 – 6.515 GHz
	• 6.535 – 6.875 GHz
	• 6.895 – 7.115 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, (20MHz, 40MHz, ,80MHz & 160MHz)
	• 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ²	• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode only
	AES-CCMP: 128 bit in hardware
	• 802.1x authentication
	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
	WPA2 certification
	WPA3 (personal) certification
	• IEEE 802.11i
	• WAPI
	• EAP
Network Architecture Models	Ad-hoc (Peer to Peer)
	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points



Output Power ³	• 802.11b: +17dBm minimum
Catpati Circi	• 802.11g: +16dBm minimum
	• 802.11a: +17dBm minimum
	• 802.11n HT20(2.4GHz): +14dBm minimum
	• 802.11n HT40(2.4GHz): +13dBm minimum
	• 802.11n HT20(5GHz): +14dBm minimum
	• 802.11n HT40(5GHz): +13dBm minimum
	• 802.11ac VHT80(5GHz): +10dBm minimum
	• 802.11ac VHT160(5GHz): +10dBm minimum
	• 802.11ax HE40(2.4GHz): +12dBm minimum
	• 802.11ax HE80(5GHz): +10dBm minimum
	• 802.11ax HE160(5GHz): +10dBm minimum
	• 802.11ax HE80(6GHz): +10dBm minimum
	• 802.11ax HE160(6GHz): +10dBm minimum
Power Consumption	• Transmit mode: 2.5 W
	Receive mode: 2 W
	Idle mode (PSP) 180 mW (WLAN Associated)
	Idle mode: 50 mW (WLAN unassociated)
	Connected Standby/Modern Standby: 10mW
	• Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management
	802.11 compliant power saving mode
Receiver 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(VHT80): -84dBm maximum
	• 802.11ac, MCS9(VHT80): -59dBm maximum
	• 802.11ac, MCS9(VHT160): -58.5dBm maximum
	• 802.11ax, MCS11(HE40): -57dBm maximum
	• 802.11ax, MCS11(HE80): -54dBm maximum
	• 802.11ax, MCS11(HE160): -53.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity
	Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN
	MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm
Weight	1. Type 2230: 2.8g
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)
	0
Humidity	Unerating: 10% to 60% (non-congensing)
Humidity	Operating: 10% to 60% (non-condensing) Non-operating: 5% to 95% (non-condensing)
	Non-operating: 5% to 95% (non-condensing)
Humidity Altitude	Non-operating: 5% to 95% (non-condensing) Operating: 0 to 10,000 ft (3,048 m)
	Non-operating: 5% to 95% (non-condensing)



HP Integrated Module with Blue	etooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology		
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3 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.		
Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW		
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth Software		
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407 ETSI 300 328, ETSI 301 893, ETSI 303 687		
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) Bluetooth 5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range Windows Bluetooth profiles support Bluetooth 5.3 Periodic Advertisement interval Encryption key size control enhancements		



HP ProDesk 2 Tower G1i E Desktop PC

QuickSpecs

- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4 Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Technical Specifications - Audio

HIGH DEFINITION AUDIO

Type Integrated

HD Stereo Codec Realtek ALC3602-CG codec

Audio I/O Ports 6 channel DAC/ 4 channel ADC, support the combo jack for CTIA and OMTP, and support the Line-

in/Line-out/Mic-in and re-tasking on jacks.

Internal Speaker Amplifier Embedded 2W mono class-D amplifier for the internal speaker.

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

streams to output to the front and rear jacks or integrated speaker.

HD Audio Codec ALC3602-CG

Sampling DAC supports 16bit ~ 24 bit, sampling rate 44.1K/ 48K/ 96K/ 192K Hz

ADC supports 16bit ~ 24 bit, sampling rate 44.1K/ 48K/ 96K/ 192K Hz

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.



Technical Specifications - Power

POWER SUPPLY

Operating Voltage Range 90 – 264 VAC
Rated Voltage Range 100-240 VAC
Rated Line Frequency 50/60 HZ
Operating Line Frequency 47 – 63 Hz
Rated Input Current 180 W: <2.3A 280W: <3.3A

400W: <5.2A

Rated Input Current with Energy Efficient* Power Supply

180W active PFC / Efficiency at 115Vac

80PLUS Gold certified 87/90/87% at 20/50/100% load

Efficiency at 230Vac

90/92/89% at 20/50/100% load Which meet 80PLUS Gold

280W/400W active PFC / Efficiency at 115Vac

80PLUS Platinum certified 90/92/89% efficient at 20/50/100% load

Efficiency at 230Vac

91/93/90% at 20/50/100% load Which meet 80PLUS Gold

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 180W: 70*25mm (linear type)

280W/400W: 70x25mm (PWM type)



Technical Specifications – Weights and Dimensions

WEIGHT AND DIMENSIONS

Chassis 6.10 x 12.13 x 13.27 in (155 x 308 x 337 mm) (w/ bezel)

System Volume 16 L

 System Weight*
 13.18 lb / 5.98 kg

 Packaged (H x W x D)
 11.3 x 15.75 x 19.65 in 287 x 400 x 499 mm

 Shipping Weight
 19.95 lb / 9.05 kg

 Palletization Profile
 6 units per layer

7 layer max 42 per pallet Footprint

84.21 x 39.37 x 47.24 in (2139 x 1000 x1200 mm)



After-Market Options (availability may vary by region)

AFTERMARKET OPTIONS

Туре	Description	Part #	
Memory	HP 8GB DDR5-5600 DIMM	A9TF0AA	
	HP 16GB DDR5-5600 DIMM	A9TF1AA	
	HP 32GB DDR5-5600 DIMM	A9TF3AA	
Storage	HP PCIe Gen 4 NVME TLC M.2 512GB SSD	406L8AA	
_	HP PCIe Gen 4 NVME TLC M.2 1TB SSD	406L7AA	
	HP 1TB 7200rpm SATA 6Gb/s 3.5" Hard Drive	QK555AA	
Graphics	AMD Radeon RX 6300 2GB GDDR6 DP+HDMI	7Y6P7AA	
•	Intel Arc A380 6GB GDDR6 3DP+HDMI	9Q6G0AA	
Networking	Intel I226-T1 2.5GbE Ethernet Network Adapter	9P1U8AA	
Security	HP Business PC Security Lock V3 Kit	3XJ17AA	
	HP Keyed Cable Lock 10mm kit	T1A62AA	
	HP Master Keyed Cable Lock 10mm	T1A63AA	
	HP Combination Standard Cable Lock	TOY15AA	
	HP Essential Combination Lock	T0Y16AA	
Cables/Adapter	rs HP HDMI Standard Cable Kit		
	HP USB to Serial Port Adapter	J7B60AA	
	HP PCIe x1 Parallel Port Card	N1M40AA	
Input	HP Business Slim v2 Smart Card USB Keyboard	A71J9AA	
	HP 125 G2 Wired Keyboard	AY2Y7AA	
	HP 125 Wired Mouse	265A9AA	
	HP 128 Laser Wired Mouse	265D9AA	
	HP Wired Desktop 320M Mouse	9VA80AA	
	HP 320K G2 Wired Keyboard	9SR37UT	
	HP Wired Desktop 320MK G2 Mouse and Keyboard Combo	9SR36UT	
	HP 655 Wireless Keyboard and Mouse Combo G2	4R009UT	
	HP 405 Multi-Device Wired Backlit Keyboard	7N7C1AA	
	HP 455 G2 Programmable WRLS USB Keyboard	B08ZDAA	
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA	
Others	HP S101 Speaker bar	5UU40AA	
	HP Z G3 Conferencing Speaker Bar wStand	647Y2AA	



Change Log

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Date of change:	Version History:	Change	Description of change:
January 13, 2025	From v1 to v2	Update	Environmental data updated
January 21, 2025	From V2 to V3	Removal	NECC word removed from Memory section
	From V3 to V4		
	From V4 to V5		
	From V5 to V6		
	From V6 to V7		
	From V7 to V8		
	From V8 to V9		
	From V9 to V10		
	From v10 to v11		
	From v11 to v12		
	From v12 to v13		
	From v13 to v14		

