HP Pro Tower 280 G9 PCI Desktop PC

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

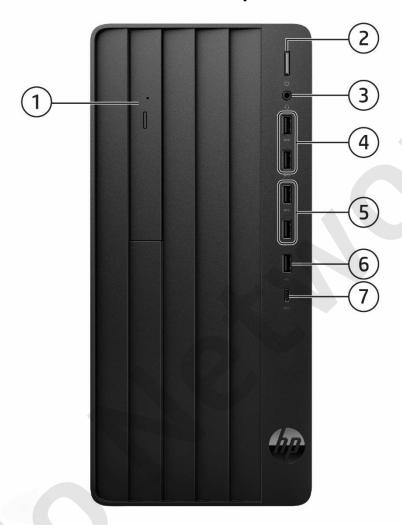
Bays

- (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.

HP Pro Tower 280 G9 PCI Desktop PC

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

(1) PCI Express 4.0 x16

(1) PCI Express 3.0 x1

(1) PCI

Slots

(1) M.2 for WLAN

(1) M.2 2242/2280 storage

Bays

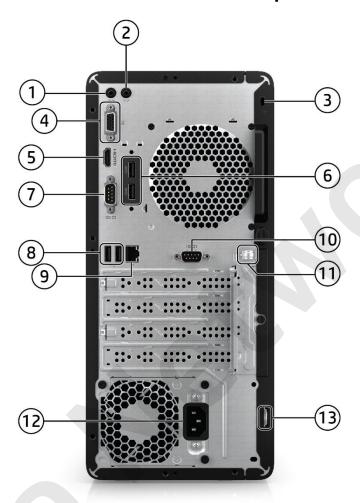
(2) 3.5"

(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



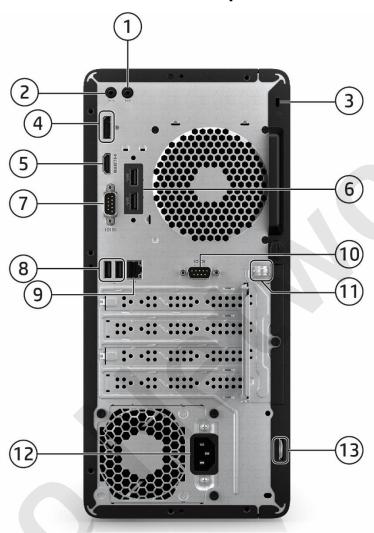
- 1. Audio Line out
- 2. Audio Line in
- 3. Standard lock slot
- 4. VGA Port1
- 5. HDM Port1
- 6. Connector (2) USB 2.0 port (Optional)²
- Not shown
- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PCIex1 slot)
- (1) 4 Serial Port (Optional via PCIex1 slot)4
- (1) Internal Speaker (Optional)
- (1) Intrusion Sensor (Optional)

- 7. Serial Port²
- 8. Connector (2) USB 2.0 port
- 9. RJ-45 Network
- 10. Serial Port (Optional)
- 11. Integrated accessories cable lock
- 12. Power Cord Connector³
- 13. Padlock Loop

- 1. Port will be covered up when configured with processor which is without internal graphics.
- 2. Available on select skus only.
- 3. Power cord connector will be in different position, depends on which power supply configured.
- 4. Available in select countries only.

Overview

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



- 1. Audio Line out
- 2. Audio Line in
- 3. Standard lock slot
- 4. DisplayPort1
- 5. HDM port1
- 6. Connector (2) USB 2.0 port (optional)²
- **Not shown**

Slots

- (1) PS/2 Port (Optional)
- (1) Parallel Port (Optional via PCIex1 slot)
- (1) 4 Serial Port (Optional via PCIex1 slot)3
- (1) Internal Speaker (Optional)
- (1) Intrusion Sensor (Optional)

- 7. Serial port²
- 8. Connector (2) USB 2.0 port
- 9. RJ-45 Network
- 10. Serial port (optional)
- Integrated accessories cable lock
- 12. Power cord connector
- 13. Padlock loop

Bays

- (2) 3.5"
- (1) 9.5mm internal optical drive bay
- 1. Port will be covered up when configured with processor which is without internal graphics.
- 2. Power cord connector will be in different position, depends on which power supply configured.
- 3. Available in select countries only.

HP Pro Tower 280 G9 PCI Desktop PC

Overview

AT A GLANCE

- Windows 11 Pro 64, Win 11 Home 64, Win 11 Pro 64 Downgrade (Win 10 Pro 64) or FreeDOS.
- Intel® H670 or 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 ac 2x2 +Bluetooth 5 M.2 2230 PCI-e+USB WW or 802.11ac (1x1) Wi-Fi® and Bluetooth® 4.2 Combo or Realtek 8852BE Wi-Fi 6 +Bluetooth® 5.2 Screw WLAN
- Up to 64GB DDR4- 3200 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 PCle® NVMe™ M.2 SSD or PCle® 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 Pro¹

Windows 11 Home - HP recommends Windows 11 Pro for Business¹

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

Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)1,2

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.
- 2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

PROCESSORS

Intel® Celeron® Processors^{1,2}

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

Intel® Pentium® Processors1,2

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)

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.



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

CHIPSET

Intel® H670/H770 Chipset

GRAPHICS

Integrated1,2

Intel® UHD

Graphics 770

Graphics 730

Graphics 710

Discrete Graphics

Intel Arc A380 graphic (6GB GDDR6)

AMD Radeon™ RX 6600XT Graphics (8GB GDDR6)

AMD Radeon™ RX 6400 Graphics (4GB GDDR6)

AMD Radeon™ RX 6300 Graphics (2GB GDDR6)

NVIDIA® Quadro® T400 (4GB GDDR6 dedicated)

NVIDIA® GeForce RTX 3050 Graphics (8GB GDDR6)

NVIDIA® GeForce RTX 4060 Graphics (8GB 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.

MEMORY

Form Factor	Туре	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 UDIMI	M NECC (2x8GB) ²		
32GB DDR4-3200 UDIMI	M NECC (1x32GB)		
32GB DDR4-3200 UDIMM NECC (2x16GB) ²			
64GB DDR4-3200 UDIMI	M 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.

HP Pro Tower 280 G9 PCI Desktop PC

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.



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

NETWORKING¹

Ethernet (RJ-45)

Integrated 10/100/1000M GbE LAN

Wi-Fi® and Bluetooth®

Realtek RTL8852BE Wi-Fi6+ Bluetooth® 5.2
Realtek RTL8822CE-CG 802.11a/b/g/n/ac (2x2) with Bluetooth® M.2 PCIe®
Realtek RTL8821CE-CG 802.11a/b/g/n/ac (1x1) with Bluetooth® M.2 PCIe®

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.

PORTS

Front

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

Power Button

Combo jack, Headphone / Microphone

SD Card Reader (Optional)

- (2) SuperSpeed USB 10Gbps signaling rate port*
- (4) SuperSpeed USB 5Gbps port* or (2) SuperSpeed USB 5Gbps signaling rate port

(1) USB 2.0*



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

(1) USB-C©*

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

Rear

Audio Line out

Audio Line in

HDMI Port

VGA Port or Displayport*

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 PCIex1 slot)
- (1) 4x Serial port (Optional via PCIex1 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)



HP Pro Tower 280 G9 PCI Desktop PC

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 00BE

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 +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.



HP Pro Tower 280 G9 PCI Desktop PC

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° C¹

Non-operating: -30° to 60° C1

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	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
	• 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	Product Carbon Footprint (hp.com)
Specifications	• 30% 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



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

System Configuration	The configuration used for the Ener Desktop model is based on a "Typic	rgy Consumption and Declared No	ise Emissions data for the
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
Heat Dissipation*	family. HP computers marked with the Environmental Protection Agency (EPA) offer ENERGY STAR® compliant configu featuring a hard disk drive, a high effici	ENERGY STAR® specifications for corrations, then energy efficiency data liency power supply, and a Microsoft W	nputers. If a model family does not sted is for a typically configured PC lindows® 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
Declared Noise	hour.		
(in accordance with	Sound Power (L _{WAd} , bels)		Sound Pressure (L _{PAm} , decibels)
(in accordance with ISO 7779 and ISO 9296) Typically Configured –			
(in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random	(L _{WAd} , bels)		(L _{pAm} , decibels)
Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Optical Drive – Sequential reads	(Lwad, bels) 3.6 3.7 3.8		(L _{pAm} , decibels) 25 26 26
(in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Optical Drive – Sequential reads	3.6 3.7 3.8 This product can be upgraded, poss features and/or components conta	ined in the product may include:	(L _{pAm} , decibels) 25 26 26 veral years. Upgradeable
(in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Optical Drive –	3.6 3.7 3.8 This product can be upgraded, poss features and/or components conta	ined in the product may include: ut the warranty period and or for u oly with EU Directive 2006/66/EC t contain: t	(L _{pAm} , decibels) 25 26 26 veral years. Upgradeable



HP Pro Tower 280 G9 PCI Desktop PC

Standard Features and Configurable Modules

Additional Information	• This produc	t is in compliance with the Restrictions of H	azardouc Cube	tancos (PoHS) directivo
Audicional información	2011/65/EC.	t is in computance with the Restrictions of A	azai uous subs	talices (ROHS) directive -
	• 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.)		
		t is 92.9% recycle-able when properly disp		of life.
Packaging Materials	External:	PAPER/Paperboard		1220 g
	Internal:	PAPER/Molded Pulp		580 g
		PLASTIC/Polyethylene low density - LDPE		40 g
	The plastic r	packaging material contains at least 0.0% re		
		ted paper packaging materials contains at l		
RoHS Compliance		lies fully with materials regulations. We we		
p		the European Union (EU) Restriction of Ha		
		ldwide through the HP GSE. HP has contribu		
		Europe, as well as China, India, and Vietnar		
		e RoHS directive and similar laws play an ir		
		f substances of concern. We have supporte		
		., BFRs, and certain phthalates—in future R	ons 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 co	opy of the HP RoHS Compliance Statement,	See HP RoHS n	osition statement
	10 obtain a co	opy of the fill Koris compliance statement,	See III Rolls p	osition statement.
Material Usage		does not contain any of the following subst	ances in exces	s 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			and at in alastica
		minated Flame Retardants – may not be use	ea as name ret	ardants in plastics
	Cadmium Chlorinated	Hudrosarbons		
	Chlorinated Chlorinated	Hydrocarbons Paraffins		
	Formaldehy			
		d Diphenyl Methanes		
		nates and sulfates		
		ead compounds		
	Mercuric Ox	•		
		shes must not be used on the external surf	ace designed to	o be frequently handled or
	carried by the			eque
		eting Substances		
		ated Biphenyls (PBBs)		
	-	ated Biphenyl Ethers (PBBEs)		
		ated Biphenyl Oxides (PBBOs)		
		ated Biphenyl (PCB)		
		ated Terphenyls (PCT)		
	,	- p - y - v v		

HP Pro Tower 280 G9 PCI Desktop PC

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
Kecycinig	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.



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications - Graphics

GRAPHICS

Intel® UHD Graphics (integrate	ed)
Graphics Controller	Integrated
DisplayPort™	Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi-Stream Technology for a maximum of 4 displays connected to any output controlled by Intel® Graphics
НДМІ	Supports HDMI 2.0a features Supports HDCP 2.2 Supports audio over HDMI
VGA	VGA output
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12
Supported Display Resolutions and Refresh Rates	Max. Resolution (VGA) 2048 x 1536 @60Hz Max. Resolution (HDMI) 7680 x 4320 @60Hz

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 4GB Graphics Card

Engine Clock 1512MHz (Game) 2040MHz (Boost)

Memory Clock2000 MHzMemory Size(width)2GB (64-bit)Memory Type512M x 32 GDDR6

 Max. Resolution (HDMI)
 7680 x 4320x 36bpp@60Hz

 Max. Resolution (DP)
 7680 x 4320 x 24bpp@120Hz

Multi Display Support 2 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) HDMI+DP

Cooling (active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption (W) 32W

PCB form-factor with bracket LP PCB with FH/LP bracket



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications - Graphics

Intel® Arc A380 6 GB Graphics Card

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

Graphic Memory Type / ClockGDDR6,3 pcs/15.5GbpsMemory Type512M x 32 GDDR6Max. Resolution (HDMI)4090x2160 @ 60HzMax. 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

AMD Radeon™ RX 6400 4GB Graphics Card

 Engine Clock
 1923MHz

 Memory Clock
 2000MHz

 Memory Size(width)
 4GB (64-bit)

 Memory Type
 512M x 32 GDDR6

 Max. Resolution (HDMI)
 7680 x 4320@60Hz

 Max. Resolution (DP)
 7680 x 4320@60Hz

Multi Display Support 2 displays

HDCP Compliance yes

Rear I/O connectors (bracket) HDMI+DP

Cooling (active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption (W) 50W

PCB form-factor with bracket LP PCB with FH/LP bracket

AMD® Radeon™ RX6600XT 8 GB Graphics Card

 Engine Clock
 1280MHz

 Memory Clock
 1000MHz

 Memory Size(width)
 8GB (128-bit)

 Memory Type
 512M x 32 GDDR6

 Max. Resolution (HDMI)
 7680 x 4320@60Hz

 Max. Resolution (DP)
 7680 x 4320@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) HDMI+DPx3

Cooling (active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption (W) 162.5W

PCB form-factor with bracket FH PCB with FH bracket



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications - Graphics

NVIDIA® Quadro T400 Graphics Card

Engine Clock2100MHzMemory Clock5001MHzMemory Size (width)4GB (64-bit)Memory Type256M x 16 GD

 Memory Type
 256M x 16 GDDR6

 Max. Resolution (DP)
 7680 x 4320@60Hz

Multi Display Support4 displaysHDCP ComplianceYes

Rear I/O connectors (bracket) mDPx3

Cooling (active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption (W) 30W

PCB form-factor with bracket LP PCB with LP bracket

NVIDIA® GeForce RTX 3050 8GB Graphics Card

 Engine Clock
 1515MHz

 Memory Clock
 7000MHz

 Memory Size (width)
 8GB (128-bit)

 Memory Type
 512M x 32 GDDR6

 Max. Resolution (DP)
 7680 x 4320@60Hz

 Multi Display Support
 7680x4320@60Hz (DSC)

HDCP Compliance Up to 4 displays

Rear I/O connectors (bracket) Yes

Cooling (active/passive) DPx3+ HDMIx1

Total power consumption (W) Active fansink with 4 pin fan control

PCB form-factor with bracket 120W



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications - Graphics

NVIDIA® GeForce RTX 4060 8GB Graphics Card

Engine Clock1830MhzMemory Clock17GbpsMemory Size (width)8GB (128-bit)Memory Type512M x 32 GDDR6Max. Resolution (DP)7680 x 4320@60HzMulti Display Support7680 x 4320@60HzHDCP ComplianceUp 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



HP Pro Tower 280 G9 PCI Desktop PC

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</td>

 Write: <9.5 ms</th>

 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 32MB

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

Average: 11 ms Full-Stroke: 21 ms



HP Pro Tower 280 G9 PCI Desktop PC

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

InterfacePCIE Gen3x4Maximum Sequential ReadUp to 2800MB/sMaximum Sequential WriteUp to 600MB/sLogical Blocks250,069,680

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 Gen3x4

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.



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications – Optical Drives

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

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

InterfacePCIE Gen3x4Maximum 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.

256GB M.2 2280 PCIe NVMe SSD

Drive Weight< 10g</th>Capacity256GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 780MB/sLogical Blocks500,118,192

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 Gen3

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 860MB/sLogical Blocks1,000,215,216

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



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications – Optical Drives

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.

500GB 7200RPM 2.5in SATA HDD

Capacity500GBRotational Speed7,200 rpmInterfaceSATA 6 Gb/sBuffer Size32MB

Logical Blocks 976,773,168
Seek Time 12 ms (Average)

Height0.267 in/6.8 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° 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.

1TB 7200RPM 2.5in SATA HDD

Capacity1TBRotational Speed7,200 rpmInterfaceSATA 6 Gb/sBuffer Size32MB

Logical Blocks 1,953,525,168
Seek Time 12 ms (Average)

Height0.374 in/9.5 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° 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 2230 PCIe NVMe SSD

Drive Weight < 10a 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.



HP Pro Tower 280 G9 PCI Desktop PC

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

Up to 8X DVD+RW Up to 6X DVD+R DL 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 Up to 24X CD-RW

Access time

(typical reads, including

settling)

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)

Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

Environmental conditions (operating - non-condensing) Temperature 41° to 122° F (5° to 50° C)

Stop Time 6 seconds (typical)

Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications — Optical Drives

HP 9.5mm Desktop G2 Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

SATA/ATAPI Interface type

Up to 8.5 GB DL or 4.7 GB standard Disc recording capacity

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 q)

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

Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) **Access time** (typical reads, including Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

Stop Time 6 seconds (typical) settling)

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)



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications – Networking

NETWORKING

10/100/1000 NIC	Ethernet Features Power Management	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 ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption
	rianayement	Advanced link down power saving for reducing link down power consumption
	Performance	TCP/IP/UDP Checksum Offload (configurable)
	Features	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 802.11ac (1x1) Wi	-Fi 5 and Bluetooth ^o	[®] 4.2 Combo
Wireless LAN Standards ¹	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



HP Pro Tower 280 G9 PCI Desktop PC

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
Security ²	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 Power ³	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 802.11n HT40(5GHz): +10dBm minimum 802.11ac VHT80(5GHz): +10dBm minimum
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

HP Pro Tower 280 G9 PCI Desktop PC

Receiver Sensitivity ⁴			
Receiver Selisitivity	802.11b, 1Mbps: -93.5dBm maxim		
	802.11b, 11Mbps: -84dBm maximu		
	802.11a/g, 6Mbps: -86dBm maxim		
	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 error rate of 10% for 802.11a/g (OFD)	packet error rate of 8% for 802.11b (CKK modulation) and a packet 4 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 ^a 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 Blue	tooth® 4.0/4.1/4.2 Wireless Card Te	chnology	
Bluetooth ^a Specification	4.0/4.1/4.2 Wireless Card Complian	nt	
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 Legacy: Synchronous Connection 0	up to 0.2 Mbps riented links up to 3, 64 kbps, voice channels	
	Legacy: Asynchronous Connection 864 kbps symmetric (3-EV5)	Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or	
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.		



HP Pro Tower 280 G9 PCI Desktop PC

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 ^a 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	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy LE Privacy 1.2 -Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)	



HP Pro Tower 280 G9 PCI Desktop PC

Realtek RTL8822CE 802.11	ac 2x2 Wi-Fi® + Bluetooth® 5
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)
	50211 raci (1655) (1655) and 255) (251 m2) for m2 a 551 m2)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security ¹	• 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
	Will
	1 Check latest software/driver release for updates on supported security features.
Network Architecture Models	Ad-hoc (Peer to Peer)
	Infrastructure (Access Point Required)
	astractare (recess i orie required)
Roaming	IEEE 802.11 compliant roaming between access points
	TELE GOL. 11 Compliant rounning between access points

HP Pro Tower 280 G9 PCI Desktop PC

Output Power ²	• 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 (Madem Standby 10mW)			
	Connected Standby/Modern Standby: 10mW Radio disabled: 8 mW			
	• Radio disabled: 8 mw			
Power Management	ACPI and PCI Express compliant power management			
	802.11 compliant power saving mode			
Receiver Sensitivity ³	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 126: 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			
LED Activity	·			



HP Pro Tower 280 G9 PCI Desktop PC

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-DH5) o 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	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 Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC60950-1/IEC62368-1 UL, CSA, and CE Mark				
Bluetooth® Profiles Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 -Link Layer Privacy LE Privacy 1.2 -Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)				



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Realtek RTL8852BE Wi-Fi6 +	Bluetooth® 5.2
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)
	30211 Tati 1 1630 1 1633, (133, and 233), (231 m2, 131 m2 a 331 m2)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security ¹	• 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)
1 1333,500	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points

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Output Power ²	 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			
rower 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 Sensitivity ³	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).			
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HP Pro Tower 280 G9 PCI Desktop PC

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



HP Pro Tower 280 G9 PCI Desktop PC

Technical Specifications - Power

POWER SUPPLY

Operating Voltage Range90 – 264 VACRated Voltage Range100-240V ACRated Line Frequency50/60 HZOperating Line Frequency47 – 63 HzRated Input Current180 W: <2.3A</th>

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)



HP Pro Tower 280 G9 PCI Desktop PC

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
 11.3 x 15.75 x 19.65 in

 (H x W x D)
 287 x 400 x 499 mm

Shipping Weight 17.64lb / 8 kg

Palletization 6 units per layer

Profile 7layer max

42 per pallet

42 per pallet Footprint

-85.31x39.37x47.24 in (2167 x 1000 x1200 mm)



HP Pro Tower 280 G9 PCI Desktop PC

After-Market Options (availability may vary by region)

AFTERMARKET OPTIONS

Туре	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	5Z7EOAA
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



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Change Log

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Date of change:	Version History:	Change	Description of change:
June 13, 2023	From v1 to v2	Removal	Disclaimer from call outs front image, page 1
June 14, 2023	From V2 to V3	Removal	Call outs section, page 4
August 8, 2023	From V3 to V4	Update	Environmental section updated
September 18, 2023	From V4 to V5	Addition	Intel Arc A380 graphic(6GB GDDR6) added to Graphics card sections
	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		

