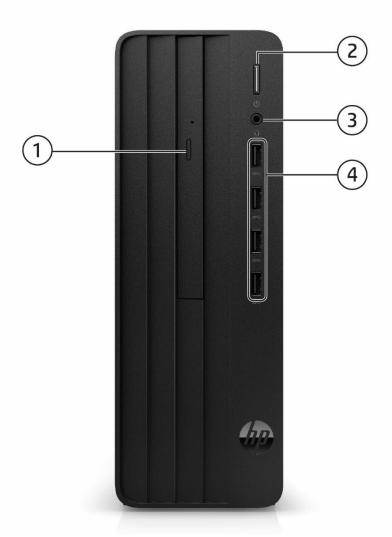
Overview

HP Pro SFF 280 G9 Desktop PC



- 1. Slim-height Bay supporting an optical disk drive (optional)
- 2. Power Button
- 3. Microphone/Headphone Combo Jack
- 4. (4) SuperSpeed USB 5Gbps signaling rate Ports¹

Not shown

Slots

- (1) PCI Express4.0 x16
- (1) PCI Express3.0 x1
- (1) M.2 for WLAN
- (1) M.2 2230/2280 storage
- 1. SuperSpeed USB 5Gbps = USB3.2 Gen1

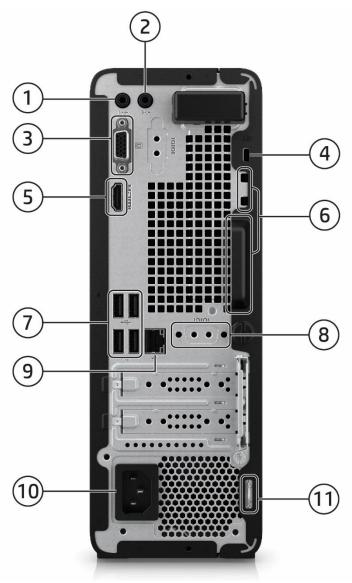
Bays

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



Overview

HP Pro SFF 280 G9 Desktop PC



- 1. Audio Line out
- 2. Audio Line in
- 3. VGA Port1
- 4. Standard lock slot
- 5. HDMI Port1
- **Not Shown**

Parallel Port (Optional via PCIex1 slot) 4 Serial Port (Optional via PCIe slot) Intrusion Sensor (Optional)

- 6. Integrated accessories cable lock
- 7. (4) USB 2.0 ports
- 8. Serial port (optional)
- 9. RJ-45 Network Connector
- 10. Power Cord Connector
- 11. Padlock Loop

1. Port will be covered up when configured with processor which is without internal graphics.

AT A GLANCE



Overview

AT A GLANCE

- Windows 11 Pro 64, Win 11 Home 64, Win 11 Pro 64 Downgrade (Win 10 Pro 64)¹ or FreeDOS.
- Intel® Intel® H670 chipset supporting up to Intel® 13th processors 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 WW³ or 802.11ac (1x1) Wi-Fi® and Bluetooth® 4.2 Combo³ or Realtek 8852BE Wi-Fi6 +BT5.2 Screw WLAN.
- Up to 64GB DDR4-3200 Unbuffered Memory (UDIMM).
- Independent monitor support via VGA and HDMI interfaces.
- TPM 2.0 support (firmware).
- Supports both Hard Disk Drives and SATA TLC / PCIe® NVMe™ M.2 SSD or PCIe® NVMe™ TLC M.2 SSD.
- 8 USB Ports (including 4 SuperSpeed USB 5Gbps ports).
- 180W 85%/ 90% HE power supply and 240W 92% HE power supply¹.
- Security cable lock supported (sold separately).
- Intrusion sensor supported (optional).
- Optional HP Care Packs available; terms and conditions vary by country; certain restrictions and exclusions apply².
- 1. Available on select skus only.
- 2. 180W 85%/90% available in select regions only.
- 3. HP Care Packs sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

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



Standard Features and Configurable Modules

OPERATING SYSTEMS

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.

PROCESSORS*

Intel® Celeron® Processors 1,2,3

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

Intel® Pentium®1,2

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

Intel 12th Processors Intel® Core™ i3^{1,2,3}

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

Intel® Core™ i5^{1,2,3}

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™ i7^{1,2,3}

CPU Intel Core i7-12700 12C 2.1GHz 3200MHz 65W (2.1GHz, Up to 4.8GHz with Intel® Turbo Boost4, 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 i5-13400F 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) CPU Intel Core i5-13600 14C 2.7GHz 3200MHz 65W (2.7GHz, turbo up to 5.0GHz, 24MB cache, 14 cores)



Standard Features and Configurable Modules

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™ i3²

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™ i5²

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

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

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

Intel® Core™ i72

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. Your product does not support Windows 8 or Windows 7, In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel 8th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com
- 2. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 3. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
- 4. 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.
- *NOTE: Not all processors are available; it varies by version.



Standard Features and Configurable Modules

CHIPSET

Intel® H670 Chipset

GRAPHICS

Integrated^{1,2}

Intel® UHD Graphics 770 (integrated on 13th Core i7-i5 processors) Intel® UHD Graphics 730 (integrated on 13th Core i5-i3 processors) Graphics 710 (integrated on Pentium and Celeron)

Discrete Graphics

NVIDIA® Quadro® T400 (4 GB GDDR6 dedicated) AMD Radeon™ RX 6300XT Graphics (2 GB 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.

MEMORY

Both slots are customer accessible / upgradeable, Supports Dual Channel Memory

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

1. Memory modules support data transfer rates up to 3200 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.



Standard Features and Configurable Modules

STORAGE AND DRIVES

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 Drive¹

1. Available on select skus only.

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.

M.2 Solid State Drives

256GB* M.2 NVMe 512GB* M.2 NVMe 1TB* M.2 NVMe 128GB* M.2 2280 PCIe NVMe Three Layer Cell SSD¹ 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

1. Available on select skus only.

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

OPTICAL DISC DRIVES

DVD-ROM 9.5mm² DVD-Writer 9.5mm²

2. Optical drives are optional or add on features. HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials.

NETWORKING/COMMUNICATIONS

Networking

Integrated 10/100/1000M GbE LAN

Network Adapter Intel FoxPond1 I225-T1 2.5GbE

Wi-Fi® and Bluetooth®

Realtek RTL8822CE-CG 802.11a/b/g/n/ac (2x2) with Bluetooth® wireless card M.2 PCIe®1 Realtek RTL8821CE-CG 802.11a/b/g/n/ac (1x1) with Bluetooth® wireless card M.2 PCIe®1 Realtek 8852BE Wi-Fi6 +BT5.2 wireless card Screw WLAN2

- 1. 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. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.
- 2. 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.



Standard Features and Configurable Modules

AUDIO/MULTIMEDIA

Realtek ALC3867-CG
Integrated Hi-Definition Audio
Combo Jack, Headphone/ Microphone
Line-in/ Line-out (3.5mm)



Standard Features and Configurable Modules

KEYBOARDS/POINTING DEVICES/BUTTONS AND FUNCTIONS KEYS

Keyboard

HP USB 320K Keyboard HP 125 Wired Keyboard HP 125 Antimicrobial Wired Keyboard

Mouse

HP Wired Desktop 320M mouse HP 125 Wired Mouse HP 128 Laser Wired Mouse HP 125 Antimicrobial Wired Mouse (China only)

PORTS

Front

Slim-height Bay - supporting an optical disk drive (optional)
(4) SuperSpeed USB 5Gbps signaling rate
Microphone/Headphone Combo Jack
Power Button

Not Shown

- (1) PCI Express4.0 x16
- (1) PCI Express 3.0 x 1
- (1) M.2 for WLAN
- (1) M.2 2230/2280 storage

Rear

Audio Line out

Audio Line in

HDMI Port

Standard lock slot

VGA Port

(4) USB 2.0 port

RJ-45 Network Connector

Power Cord Connector

Padlock loop

Integrated Accessories Cable Lock

Serial port (optional)



Standard Features and Configurable Modules

Not Shown

- (1) Parallel Port (Optional via PCIex1 slot)
- (1) 4x Serial port (Optional via PCIex1 slot)1
- (1) PS/2 Port (Optional)
- (1) Intrusion Sensor (Optional)
- 1. Available for selected regions

BAYS

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

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

Security and Protection

McAfee* LiveSafe™1

Productivity

Microsoft 365 (sold separately and requires Internet access for activation) Dropbox²

ODD Playback

sMedio True DVD for HP

App Stores and Content Purchasing

Amazon⁴

HP Utilities and Support

HP Documentation

HP JumpStarts

HP Audio Switch⁵

HP Support Assistant⁶

myHP

BTB

HP Setup Integrated 00BE

Hardware Enabling Drivers or software utility

HP System Event Utility

*NOTE: Available for LA region only.

- 1. Free 1-year subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration 2. New Dropbox users are eligible to get 25 GB of Dropbox space free for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at https://www.dropbox.com/help/space/hp-promotion. Internet service required and not included.
- 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 30 day free trial period. See visit http://www.xerox.com/docusharego for details.



Standard Features and Configurable Modules

- 4. Internet access required and not included.
- 5. Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience
- 6. For more information visit hp.com/go/hpsupportassistant [Link will vary outside of the U.S.] HP Support Assistant is available for Android and Windows based PCs.

POWER

Power Supply

180W

EPA85 Full range 115V/230V

EPA90 (Gold) Full range 115V/230V

240W

EPA92 (Platinum) Full range

WEIGHT AND DIMENSIONS

(configured with 1 HDD and 1 ODD)

Chassis (W x D x H) 3.74 x 11.93 x 10.63 in (95 x 303 x 270 mm) (w/bezel)

System Weight 8.82 lbs / 4 kg*

UNIT ENVIRONMENTAL AND OPERATING CONDITIONS

General Unit Operating Guidelines

Environmental and Industry

- 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°1

Relative Humidity Operating: 5% to 90% (non-condensing at ambient)

Non-operating: 5% to 90% (non-condensing at ambient)

Maximum Altitude Operating: 5,000 m

(unpressurized) Non-operating: 50,000 ft (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.



^{*}NOTE: Weight varies by configuration and component

Standard Features and Configurable Modules

Eco-Label Certifications & declarations System Configuration	This product has received or is in to may be labeled with one or more of IT ECO declaration • US ENERGY STAR® • US Federal Energy Management • EPEAT Silver registered in the Uryour country. • China Energy Conservation Progetonia State Environmental Protetonia Taiwan Green Mark • Commission Regulation (EC) No 60 The configuration used for the End	of these marks: Program (FEMI nited States. Se ram (CECP) ection Administ 617/2013 (ErP	: P) ee http://www.epo ration (SEPA) Lot 3)	eat.net for registration status in
bystem configuration	Desktop model is based on a "Typ	• • • • • • • • • • • • • • • • • • • •		Noise Emissions data for the
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz		AC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	12.46W	12.	.51W	12.40W
Normal Operation (Long idle)	10.16W	10.	.22W	10.02W
Sleep	1.76W	1.	75W	1.76W
Off	0.38W	0.4	41W	0.41W
	family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model fanot offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typic configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Window operating system. Search keyword generator on HP's 3rd party option store for solar generator a at http://www.hp.com/go/options.			computers. If a model family does data listed is for a typically and a Microsoft Windows®
Heat Dissipation*	115VAC, 60Hz	230V <i>A</i>	\C, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	42.49 BTU/hr		BTU/hr	42.28 BTU/hr
	34.65 BTU/hr		BTU/hr	34.17 BTU/hr
	37.03 B1 0/111			37.17 010/111
Normal Operation (Long idle)	6.00 BTU/hr		BTU/hr	
		5.97	BTU/hr BTU/hr	6.00 BTU/hr 1.40 BTU/hr
Normal Operation (Long idle) Sleep Off	6.00 BTU/hr	5.97 1.40	BTU/hr	6.00 BTU/hr 1.40 BTU/hr
Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	6.00 BTU/hr 1.30 BTU/hr NOTE: Heat dissipation is calculated b one hour. Sound Power (L _{WAd} , bels)	5.97 1.40	BTU/hr sured watts, assum S	6.00 BTU/hr 1.40 BTU/hr ning the service level is attained for found Pressure (L _{pAm} , decibels)
Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle	6.00 BTU/hr 1.30 BTU/hr NOTE: Heat dissipation is calculated b one hour. Sound Power (LwAd, bels) 3.2	5.97 1.40	BTU/hr sured watts, assum S	6.00 BTU/hr 1.40 BTU/hr ning the service level is attained for found Pressure (L _{pAm} , decibels) 19.7
Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	6.00 BTU/hr 1.30 BTU/hr NOTE: Heat dissipation is calculated b one hour. Sound Power (L _{WAd} , bels)	5.97 1.40	BTU/hr sured watts, assum S	6.00 BTU/hr 1.40 BTU/hr ning the service level is attained for found Pressure (L _{pAm} , decibels)
Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Optical Drive – Sequential reads	6.00 BTU/hr 1.30 BTU/hr NOTE: Heat dissipation is calculated b one hour. Sound Power (L _{WAd} , bels) 3.2 3.3 4.5	5.97 1.40 pased on the mea	BTU/hr Isured watts, assum S	6.00 BTU/hr 1.40 BTU/hr 1.40 BTU/hr ning the service level is attained for found Pressure (L _{pArn} , decibels) 19.7 20.7 38.2
Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Optical Drive – Sequential	6.00 BTU/hr 1.30 BTU/hr NOTE: Heat dissipation is calculated bone hour. Sound Power (L _{WAd} , bels) 3.2 3.3	5.97 1.40 pased on the mea ssibly extending ained in the pro	BTU/hr Isured watts, assum S (g its useful life by oduct may include	6.00 BTU/hr 1.40 BTU/hr 1.40 BTU/hr ning the service level is attained for found Pressure (L _{pAm} , decibels) 19.7 20.7 38.2 several years. Upgradeable



Standard Features and Configurable Modules

	Battery size: CR2032 (coin cell) Battery type: Lithium				
Additional Information	This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.				
		designed to comply with the Waste Electrical and Electr	onic Equipment		
	This product is in co	ompliance with California Proposition 65 (State of Califo	ornia; Safe Drinking		
		orcement Act of 1986).			
		ompliance with the IEEE 1680.1 (EPEAT) standard at the	e <silver> level, see</silver>		
	http://www.epeat.ne		ICO114CO		
	ISO1043.	hing over 25 grams used in the product are marked per	150 i 1469 and		
		ins 28.2% post-consumer recycled plastic (by wt.)			
		7% recycle-able when properly disposed of at end of life	Δ		
ackaging Materials	External:	PAPER/Corrugated	540 g		
ackaging Platerials	Internal:	PAPER/Molded Pulp	350 g		
	meer mae.	PLASTIC/Polyethylene low density - LDPE	30 g		
laterial Usage	This product does no	ot contain any of the following substances in excess of r			
lateriat obage	·	eral Specification for the Environment at	egatatory timits		
		hpinfo/globalcitizenship/environment/pdf/gse.pdf):			
	• Asbestos	ripinio, geodatenizensinp, en vii oninene, par, goeipar,			
	Certain Azo Colorants				
	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics				
	• Cadmium				
	Chlorinated Hydrocarbons				
	Chlorinated Paraffins				
	• Formaldehyde				
	Halogenated Diphenyl Methanes				
	Lead carbonates and sulfates				
	Lead and Lead compounds				
	Mercuric Oxide Batteries				
	• Nickel – finishes must not be used on the external surface designed to be frequently handled or				
	carried by the user.				
	Ozone Depleting Substances				
	Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethors (PBBs)				
	Polybrominated Biphenyl Ovides (PBBCs) Polybrominated Biphenyl Ovides (PBBCs)				
	Polychlorinated Biphenyl (PCP) Polychlorinated Biphenyl (PCP)				
	Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT)				
	Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been				
	voluntarily removed from most applications.				
	Radioactive Substances				
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)				
ackaging Usage		delines to decrease the environmental impact of produ	ct 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 o	f post-consumer recycled content materials in packagi	ng materials.		
	Use readily recyclable packaging materials such as paper and corrugated materials.				
	Reduce size and weight of packages to improve transportation fuel efficiency.				
	Reduce size and we	eight of packages to improve transportation fuel efficie	ncy.		



Standard Features and Configurable Modules

End-of-life Management and Recycling

HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_1

4K_Certificate.pdf

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 Service⁴. 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. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit 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.



Standard Features and Configurable Modules

GRAPHICS

Intel® UHD Graphics (integrated)	
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
НОМІ	Supports HDMI 1.4 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) 1920x1080 @60Hz Max. Resolution (HDMI) 4K2K @24Hz

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.

NVIDIA® Quadro T400 Graphics Card

Engine Clock2100 MHzMemory Clock5001 MHzMemory Size (width)4GB (64-bit)Memory Type256M x 16 GDDR6Max. Resolution (DP)7680x4320@60Hz

Multi Display Support4 displaysHDCP ComplianceYesRear 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



Standard Features and Configurable Modules

AMD® Radeon™ RX 6300 2GB Graphics Card

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

Memory Clock2000 MHzMemory Size(width)2GB

Memory Type 512M x 32 GDDR6

 Max. Resolution (HDMI)
 7680x4320x36bpp @60Hz

 Max. Resolution (DP)
 7680x4320x24bpp @120Hz

Multi Display Support 2 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) HDMIx1+DPx1
Cooling (active/passive) Active fan-sink

Total power consumption (W) 32W

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



Technical Specifications – Storage

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 64 MB

 Logical Blocks
 3,907,029,168

 Seek Time
 Read: <8.5 ms</td>

Write: <9.5 ms

 Height
 1.028 in/26.11 mm

 Width
 4.0 in/101.6 mm

Operating Temperature 32° to 140° F (0° to 60° C)

NOTE: For 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.

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 32 MB

 Logical Blocks
 1,953,525,168

 Seek Time
 Read: <8.5 ms</td>

 Write: <9.5 ms</th>

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 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.

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

Capacity 500GB
Rotational Speed 7,200 rpm

Drive Type Serial ATA 3.0 (6.0 Gb/s)

Interface 32 MB
Buffer Size 976,773,168



Technical Specifications – Storage

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 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.

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

Drive Weight< 10g</td>Capacity128GBHeight2.38mmLength80mmWidth22mm

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 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.

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

Drive Weight< 10g</th>Capacity256GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3x4

Maximum Sequential ReadUp to 2700MB/sMaximum Sequential WriteUp to 1000MB/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 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.



Technical Specifications – Storage

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

Drive Weight < 10g
Capacity 512GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

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 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.

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

Drive Weight < 10q Capacity 1TB Height 2.3mm Length 80mm Width 22mm Interface PCIE NVMe **Maximum Sequential Read** Up to 2900MB/s **Maximum Sequential Write** Up to 1100MB/s **Logical Blocks** 2,000,409,264

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

Features Pyrite

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.

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



Technical Specifications – Storage

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.

512GB M.2 2280 PCIe NVMe SSD

Drive Weight< 10g</td>Capacity512GBHeight2.38mmLength80mmWidth22mmInterfacePCIE 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]

Features APST; ASPM L1.2; NVME spec 1.2

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.

1TB M.2 2280 PCIe NVMe SSD

Drive Weight < 10q Capacity 1TB Height 2.3mm Length 80mm Width 22_{mm} Interface **PCIE NVMe Maximum Sequential Read** Up to 1600MB/s **Maximum Sequential Write** Up to 860MB/s **Logical Blocks** 2,000,409,264

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

Features Pyrite

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.

500GB 7200RPM 2.5in SATA HDD

Capacity 500GB

Rotational Speed 7,200 rpm

Interface SATA 6 Gb/s

Buffer Size 32 MB

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)



Technical Specifications – Storage

Operating Temperature 41° to 131° F (5° to 55° C)

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.

1TB 7200RPM 2.5in SATA HDD

Capacity 1TB

Rotational Speed 7,200 rpm **Interface** SATA 6 Gb/s **Buffer Size** 32 MB

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 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.



Technical Specifications — Optical Disc Drives

OPTICAL DISC DRIVES

HP 9.5mm Desktop G2 Slim DVD Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) 0.31 lb (140 g)

Read Speeds DVD-R DL - Up to 6X

DVD+R - Up to 8X DVD+RW - Up to 8X DVD+R DL - Up to 6X DVD-R - Up to 8X DVD-RW - Up to 6X CD-R - Up to 24X CD-RW - Up to 10X

DVD-RW, DVD+RW - Up to 8X DVD-R DL, DVD+R DL - Up to 8X DVD+R, DVD-R - Up to 8X

DVD-ROM DL, DVD-ROM - Up to 8X

CD-ROM, CD-R - Up to 24X

CD-RW - Up to 24X

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

settling) Stop Time 6 seconds (typical)

Power Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Environmental conditions 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 9.5mm Desktop G2 Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) 0.31 lb (140 g)

Read Speeds DVD-R DL - Up to 6X

DVD+R - Up to 8X DVD+RW - Up to 8X DVD+R DL - Up to 6X DVD-R - Up to 8X DVD-RW - Up to 6X CD-R - Up to 24X CD-RW - Up to 10X



Technical Specifications — Optical Disc Drives

DVD-RW, DVD+RW - Up to 8X DVD-R DL, DVD+R DL - Up to 8X DVD+R, DVD-R - Up to 8X

DVD-ROM DL, DVD-ROM - Up to 8X

CD-ROM, CD-R - Up to 24X

CD-RW - Up to 24X

Access time (typical reads, including

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

settling)

Stop Time 6 seconds (typical)

Power

Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Environmental conditions (operating - non-condensing)

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

Relative Humidity 10% to 80%

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



Technical Specifications – Audio

HIGH DEFINITION AUDIO

Type Integrated

HD Audio Codec Realtek ALC3867-CG

Audio I/O Ports Front side Combo jack for supporting CTIA, Rear side Line-in/Line-out/Mic-in jacks

Wavetable Syntheses Yes
Analog Audio Yes
Internal Speaker NA

DAC Sampling Rates 16 to 24-bit; 44.1K/ 48 K/96K / 192K Hz

ADC Sampling Rates 16 bit, 44.1K/ 48K/ 96K/ 192K Hz



Technical Specifications - Power

POWER SUPPLY

P/S 180W SFF ENTS20L EAP85

Operating Voltage Range 180 – 264 VAC
Rated Voltage Range 200-240V AC
Rated Line Frequency 50/60 HZ
Operating Line Frequency 47 – 63 Hz
Rated Input Current 180W: <1.3A

Rated Input Current with Energy Efficient* Power

Supply 82/85/82% efficient at 20/50/100% load (230V)

DC Output +12.1V

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 50 x 20 mm (linear type)

P/S 180W SFF ENTS20L EAP90 (GOLD)

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

Rated Input Current with Energy Efficient* Power

Supply

87/90/87% efficient at 20/50/100% load (115Vac) 88/92/88% efficient at 20/50/100% load (230V)

DC Output +12.1V

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 50 x 20 mm (linear type)



Technical Specifications - Power

P/S 240W SFF ENTS20L EAP92 (PLATINUM)

Operating Voltage Range 90 - 264 VAC **Rated Voltage Range** 100-240V AC **Rated Line Frequency** 50/60 HZ **Operating Line Frequency** 47 - 63 Hz

Rated Input Current 240W Platinum ≤ 2.9A

Rated Input Current with Energy Efficient* Power

Supply

90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)

DC Output +12V

Current Leakage (NFPA 99:

2102)

Less than 500 microamps of leakage current at 264 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 264 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 50mm variable speed



Technical Specifications – Weights and Dimensions

WEIGHTS AND DIMENSIONS

Chassis (W x D x H) 3.74 x 11.93 x 10.63 in (95 x 303 x 270 mm) (w/ bezel)

System Volume 463.16cu in

7.6L

System Weight* 8.82 lbs / 4 kg

Packaged 13.46 x 7.72 x 19.65 in (H x W x D) 342 x 196 x 499 mm

(Molded Pulp)*

Palletization12-units per layerProfile6 layer max

72 per pallet Footprint (HxWxD) 85.91 x 39.37 x 47.24 in (2182 x 1000 x 1200 mm)

*NOTE: Weight varies by configuration and component

Technical Specifications – Networking

NETWORKING

10/100/1000 Integrated NIC

Ethernet Features 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s

Power Management ACPI compliant – multiple power modes

Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power consumption

Performance Features TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload

Receiving Side Scaling Jumbo Frame 9K

Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up

Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status

Network Adapter Intel FoxPond1 I225-T1 2.5GbE

Connector RJ-45

System Interface PCI(Intel proprietary) + SMBus

Data rates supported 1. 10 Mbit/s operation (10BASE-T; IEEE 802.3; 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



Technical Specifications – Networking

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 Management ACPI compliant – multiple power modes

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



Technical Specifications – Networking

Realtek RTL8821CE-CG 802.11a/b/g/n/ac (1x1) with Bluetooth® wireless card M.2 PCIe®

Wireless LAN Standards1	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac 1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11 ac) is backwards compatible with prior 802.11 specs.			
Interoperability	Wi-Fi® certified mod	Wi-Fi® certified modules		
Frequency Bands	802.11b/g/n	•2.402 – 2.482 GHz Note: The FCC has declared as of January 1, 2015 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.		
	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		
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	 • AES-CCMF • 802.1x au • WPA, WPA • WPA2 cer • IEEE 802. 	 • 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 		
	2 Check latest softwa	re/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 ac	cess 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 802.11ac VHT80(5GHz): +10dBm minimum 			
Power Consumption	•Transmit mode2.0 W •Receive mode1.6 W •Idle mode (PSP)180 mW(WLAN	•Receive mode1.6 W •Idle mode (PSP)180 mW(WLAN Associated) •Idle mode50 mW(WLAN unassociated) •Connected Standby 10mW		
Power Management		ACPI and PCI Express compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity ⁴	802.11b, 11Mbps: -84dBm max 802.11a/g, 6Mbps: -86dBm max 802.11a/g, 54Mbps: -72dBm maxin 802.11n, MCS07: -67dBm maxin 802.11n, MCS15: -64dBm maxin 802.11ac, MCS0: -84dBm maxin 802.11ac, MCS9: -59dBm maxin	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum 4 Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).		
Antenna type	High efficiency antenna. One embedded dual band 2.4/5	<u> </u>		
Form Factor	PCI-Express M.2 MiniCard	PCI-Express M.2 MiniCard		
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mr	Type 2230: 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230: 2.8g	Type 2230: 2.8g		
Operating Voltage	3.3v +/- 9%	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: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)			



Technical Specifications – Networking

LED Activity	LED Amber – Radio OFF; LED White – Radio ON	
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HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification	4.0/4.1/4.2 Compliant
bluetootii Speciiicatioii	4.0/4: 1/4.2 Compilant
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.
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	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)



Technical Specifications – Networking

Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)

Realtek RTL8822CE 802.11ac 2x2 Wi-Fi + BT5.1 wireless card

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
	ILLE GOZ.TTV
	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
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)
	00211102111230 111235, (133), and 233) (2011112, 1011112 0 0011112)
Modulation	Direct Sequence Spread Spectrum
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security ²	• 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
	2 Check latest software/driver release for updates on supported security features.
Network Architecture Models	Ad-hoc (Peer to Peer)
	Infrastructure (Access Point Required)
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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 802.11ac VHT160(5GHz): +11.5dBm minimum 3. Maximum output power may vary by country according to local regulations.
Power Consumption	 Transmit mode:2.0 W Receive mode:1.6 W Idle mode (PSP) 180 mW (WLAN Associated) Idle mode:50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver 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, MCS0: -84dBm maximum 4 Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (0FDM 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
HP Integrated Module wi	th Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology
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Technical Specifications – Networking

Bluetooth Specification	4.0/4.1/4.2/5.0 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	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)

Realtek 8852BE Wi-Fi6 +BT5.2 wireless card WLAN¹



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 802.11h IEEE 802.11i IEEE 802.11i IEEE 802.11r IEEE 802.11r IEEE 802.11r IEEE 802.11v 1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.			
Interoperability	Wi-Fi® certified			
Frequency Band	802.11b/g/n • 2.402 – 2.482 GHz 802.11a/n/ac • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz			
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz & 80MHz)			
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM			
Security ²	 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 2 Check latest software/driver release for updates on supported security features. 			
National Analysis and the				
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)			
Roaming	IEEE 802.11 compliant roaming between access points			



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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 802.11ac VHT160(5GHz): +11.5dBm minimum 802.11ac VHT160(5GHz): +11.5dBm minimum 		
Power Consumption	 Transmit mode:2.0 W Receive mode:1.6 W Idle mode (PSP) 180 mW (WLAN Associated) Idle mode:50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW Radio disabled: 8 mW 		
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity ⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum 4 Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).		
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications		
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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 wi	th Bluetooth® 4.0/4.1/4.2/5.0 Wireless Technology		
			



Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant				
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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)				



After-Market Options (availability may vary by region)

AFTER MARKET OPTIONS

Туре	<u>Description</u>	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 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	
	HP PCIe Gen 4 NVME TLC M.2 1TB SSD	406L7AA	
Graphics	NVIDIA T400 4GB GDDR6 3mDP	5Z7E0AA	
	AMD Radeon RX 6300 2GB GDDR6 DP + HDMI	7Y6P7AA	
Security	HP Business PC Security Lock V3 Kit	3XJ17AA	
	HP Keyed Cable Lock 10mm kit	T1A62AA	
Adapters	HP PCIe x1 Parallel Port Card	N1M40AA	
	HP HDMI Standard Cable Kit	T6F94AA	
	HP USB to Serial Port Adapter	J7B60AA	
	DisplayPort Cable Kit	VN567AA	
Networking	Intel Ethernet I225-T1 GbE NIC Card	406L9AA	
Input	HP Wired Desktop 320K Keyboard	9SR37AA	
	HP 125 Wired Mouse	265A9AA	
	HP 225 Wired Mouse and Keyboard Combo	286J4AA	
	HP 225 Antimicrobial Wired Mouse and Keyboard Combo	286K3AA	
	HP Wired Desktop 320K Keyboard	9SR37AA	
	HP Wired Desktop 320M Mouse	9VA80AA	
	HP 125 Wired Keyboard	266C9AA	
	HP 125 Wired Mouse	265A9AA	



Change Log

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Date of change:	Version History:		Description of change:
June 21, 2023	From v1 to v2	Correction	Sku's for adapters in AMO corrected
August 17, 2023	From v2 to v3	Update	Back call outs image updated
August 21, 2023	From v3 to v4	Addition	Serial port (optional) added to Rear ports section
April 30, 2024	From v4 to v5	Addition	Intel® I225-LM 2.5 Gigabit Network
June 26, 2025	From v5 to v6	Update	Graphics integrated table and PSU for 180W and 240W titles updated
August 22, 2025	From v6 to v7	Update	Intel 14th Processors added
	From v7 to v8		
	From v8 to v9		
	From v9 to v10		
	From v10 to v11		
	From v11 to v12		

