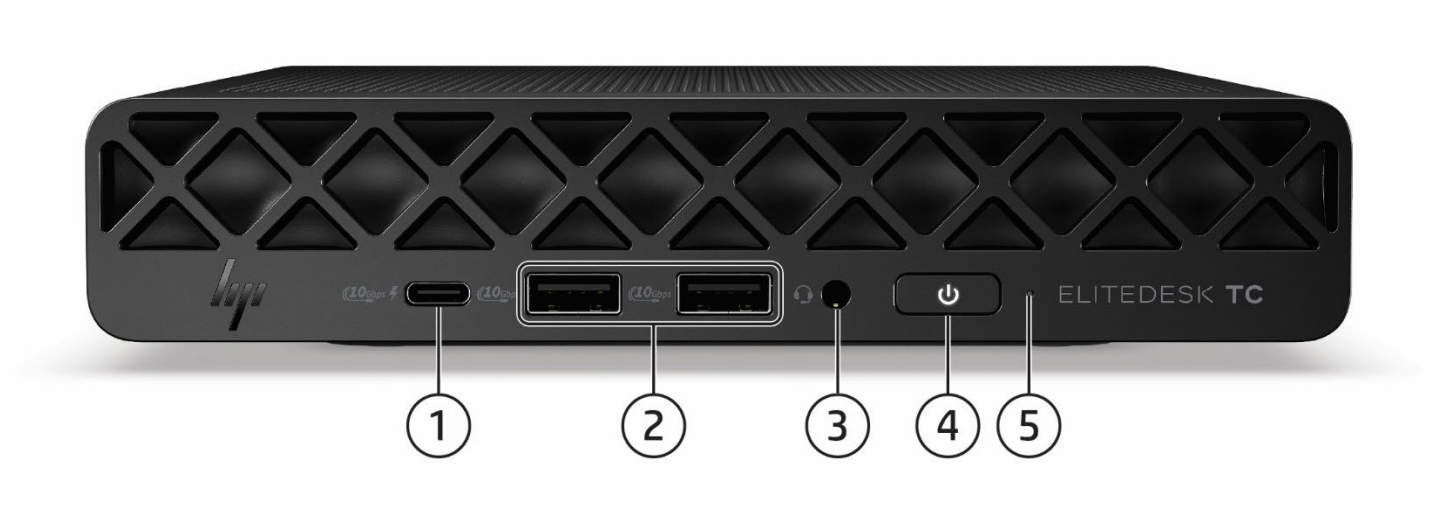
Overview

HP EliteDesk 7 G1a Next-Gen AI Thin Client

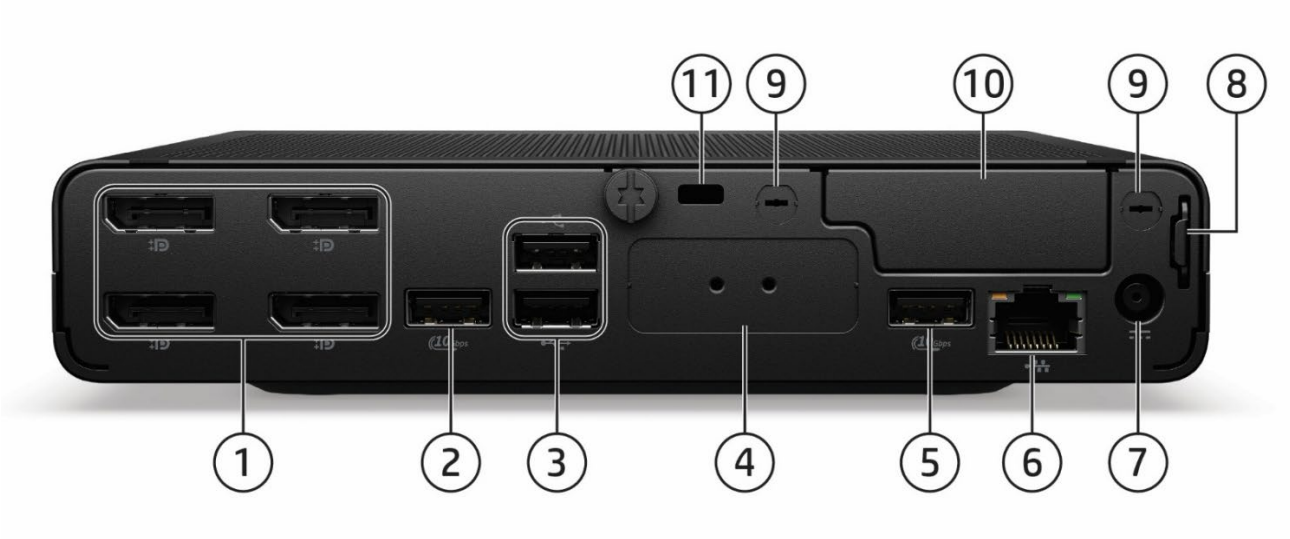


1. Type-C® SuperSpeed USB 10Gbps signaling rate[1] (charge support up to 5V/3A)
2. Type-A SuperSpeed USB 3.2 Gen2 10 Gbps signaling rate[1]
3. Universal Audio Jack with CTIA headset support
4. Dual-state power button
5. Storage activity light

1. Actual throughput may vary

Overview

HP EliteDesk 7 G1a Next-Gen AI Thin Client



1. (4) DisplayPort 2.1 UHBR10
2. USB 10Gbps signaling rate port
3. 2 x Type-A SuperSpeed USB 10Gbps signaling rate[1] (Supporting wake from S4 with keyboard/mouse connected and enabled in BIOS)
4. Flex Port 1, choice of one:
   - DP
   - USB Fiber NIC: SC interface, LC interface, Powered Fiber NIC[2]
   - RJ45[3]
   - TBT4 with 100W power delivery
5. USB 10Gbps signaling rate port
6. RJ-45 Network Adapter[3]
7. Power connector
8. Retractable Padlock Loop
9. (2) External WLAN antenna opening
10. Flex Port 2, choice of one:
    - DP (AMD RX6300)
    - DisplayPort™ 2.1 (through DP link or dGPU)
    - Powered Native Serial
11. Standard cable lock slot (10mm)

1. Actual throughput may vary
2. Fiber NIC 1Gbps card is not available in selected Europe countries and Korea.
3. Shielded Cable Requirement
For continued compliance with electromagnetic interference (EMI) regulations, the LAN port shall be connected only with a shielded twisted-pair (STP) Ethernet cable. Failure to use a shielded cable may result in non-compliance with regulatory emission requirements.

Not Shown

Slots

(1) internal M.2 WLAN (2230 connector)
(2) internal M.2 SSD storage (2230/2280 connector)

Mounting

VESA 100 mounting system integrated on bottom of PC chassis

Support for:
- VESA Sleeve standalone
- Quick Release Bracket
- B200/B300/B500/B550/B560/B600 Mounting bracket
- Integrated Work Center Stand
- HP Single Monitor Arm

Overview

AT A GLANCE

- AMD Ryzen AI Embedded P132 4.50G 8MB 6C 28W, 8MB Cache, Up to 6 Cores, 12 Threads
- AMD Memory Guard technology that encrypts data in main memory
- DDR5 dual-channel SDRAM system memory; up to 5600 MT/s transfer rate; two SODIMM slots

  (4) DisplayPort™ 2.1 video outputs supporting up to UHD/4K (3840 x 2160 @ 60 Hz) resolutions each
- Optional AMD Radeon RX 6300 25W 2GB GFX Special PCIe graphics card provides support for an additional 2 displays, bringing the system support total to six displays at up to UHD/4K (3840 x 2160 @ 60 Hz) resolution.
- Solid-state flash memory storage; M.2 form factor modules; two slots
- All models are rated for operation within an ambient operating temperature of up to 40 degrees C.
- Realtek RTL8111EPH Gigabit Ethernet (GbE) network connection.
- Optional Allied Telesis PCI Express Fiber Optic NICs; Fast Ethernet (100 Mb/s) or Gigabit (1,000 Mb/s)
- Optional 1 Mediatek MT7925 Wi-Fi 7+Bluetooth 6.0 AI M-T WW WLAN, Mediatek RZ616 Wi-Fi 6 AIM-T 160 MHz + Bluetooth 5.3 WW WLAN (Antenna is internally integrated in the chassis with the Wi-fi® SKU)
- Optional external Wi-Fi® antenna system
- Integrated PC speaker for basic audio playback; 3.5 mm combo headset/audio jack on front
- 90W, and 100W non-PFC external power adapter
- Security features include a TCG Common Criteria and FIPS 140-2 certified TPM version 2.0 and a system UEFI (BIOS) designed to address NIST SP 800-147 BIOS protection guidelines and NIST SP800-155 BIOS integrity measurement guidelines.
- A cable lock slot is provided for use with a cable lock to enable the system's physical security.
- Engineered with an active thermal solution including active thermal management technology that monitors the system operating temperatures, throttles SOC operation if appropriate and prevents unit thermal shutdown.
- ENERGY STAR® certified configurations available and EPEAT® Silver registered in the United States (except for some models configured with Fiber Optic NIC networking options). See http://www.epeat.net for registration status in other countries.
- Post-consumer recycled plastics content greater than 50% total unit plastics (by weight)
- Low halogen material content
- All models TAA compliant in North America

WARRANTY

HP one-year hardware limited warranty in most regions; HP Care Packs* are extended service contracts that go beyond your standard limited warranties; for more details visit http://www.hp.com/go/cpc.

*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 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.

OPERATING SYSTEM

- HP Thin Pro, including HP Smart Zero Core
- Windows 11 IoT Enterprise LTSC 2024[1]

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 11 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
Not all features are available with HP ThinPro, Smart Zero Core and No OS.

PROCESSOR[1]

Model	CPU Frequency Max/Base	Cores/Threads	GPU Type	GPU freqency
AMD Ryzen Embedded P132 4.50G 8 MB 6C 28W	2 GHz / 4.5 GHz	6/12	Integrated AMD Radeon™	2000 MHz

1. 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. AMD's numbering, branding and/or naming is not a measurement of higher performance.

GRAPHICS

System Integrated Graphics

AMD® Radeon™ Graphics

Note: Integrated graphics support up to 4 display signals.
Support up to 6 displays with a maximum of 6 active at a time when configured.
*HP Video Port Extender only available with 54W Processors

DISPLAY SUPPORT

Number of displays supported

A maximum of 6 4K displays are supported (with optional Graphics Card)

- Up to 1 x 4K60 Hz video playback (full screen mode) on one of the 4K displays
- Dual channel memory is required.

Combination:

4 x DisplayPort™ (onboard)

4 x DisplayPort™ (onboard) + 2 x DisplayPort™
(optional discrete Graphics card – 1xDP™ / 1x Serial or 2 DP's)

Video Resolution Support Matrix

Windows 11 IoT Enterprise LTSC 2024	FHD 1920 x 1080 @ 60 Hz	UHD 3840 x 2160 @ 60Hz	UHD 3840 x 2160 @ 60Hz
Memory configuration	Single/Dual Channel	Single Channel	Dual Channel
Maximum number of supported displays	6	1	6
1080p playback	✓	✓	✓
UHD/4K video playback		✓*	✓

*Dual channel memory required for 4K video playback for a maximum of one 4K display

Windows 11 IoT Enterprise LTSC 2024	≤6 x FHD 1920 X 1080 @ 60Hz	1 x UHD/4K 3840 x 2160 @ 60Hz	4 x UHD/4K 3840 x 2160 @ 60Hz (2 x 4G RAM or above)	6 x UHD/4K 3840 x 2160 @ 60Hz (2 x 8G RAM or above)
Static screen (no video)	✓	✓	✓	✓
1080 60fps (or below) video	✓	✓	✓	✓
4K 30fps video		✓*		
4K 60fps video		✓*		

Thinpro 9	≤6 x FHD 1920 X 1080 @ 60Hz	1 x UHD/4K 3840 x 2160 @ 60Hz	4 x UHD/4K 3840 x 2160 @ 60Hz (2 x 4G RAM or above)	6 x UHD/4K 3840 x 2160 @ 60Hz (2 x 4G RAM or above)
Static screen (no video)	✓	✓	✓	✓

NOTE: HP highly recommends configuring the HP EliteDesk 7 G1a Next-Gen AI Thin Client with dual channel memory for optimized video performance. UHD/4K video playback results may vary based on hardware configuration and installed applications.

STORAGE

M.2 PCIe NMVe Solid State Drives (SSD)[1]

256GB M.2 2280 PCIe NVMe SSD
512GB M.2 2280 PCIe NVMe SSD
128 eMMC MMCv5.0
64GB eMMC MMCv5.0
AMD® Radeon™ Graphics

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. 64GB min. Storage for Windows 21H2.

SYSTEM MEMORY[1,2,3,4,5]

Max Memory Configuration

DDR5-5600 (Transfer rates up to 5600 MT/s), Max 32 GB, 2 SO-DIMM

1. All memory slots are customer accessible/upgradeable.
2. Actual transfer rate will vary and is determined by the system's configured processor. See processor specifications for supported memory data rate.
3. System architecture design is 1DIMM per channel and the population starts from the furthest memory slot from the processor.
4. To achieve optimal memory speed, HP strongly recommends using identical memory modules (e.g., same capacity, same part number and from the same supplier) within the same memory channel.
5. Transfer rates determined by processor and memory configuration.
6. The Graphics Processing Unit (GPU) uses part of the total system memory. System memory dedicated to graphics performance is not available for use by other programs.

Memory Configuration

8GB (1x8GB)
12GB (1x12GB)
16GB (2 x 8GB)
16GB (1 x 16GB)
24GB (1x24GB)
32GB (2 x 16GB)
32GB (1 x 32GB)

UEFI

UEFI Specification Revision: 2.9 (or newer)

TPM 2.0: Meets requirements for Common Criteria, an independent third-party certification of trustworthiness Meets requirements for FIPS 140-3, a standard for cryptographic integrity.

Security features: Security features include a TCG Common Criteria and FIPS 140-3 certified TPM version 2.0 and a system UEFI (BIOS) designed to address NIST SP 800-147 BIOS protection guidelines and NIST SP800-155 BIOS integrity measurement guidelines.

NETWORKING/COMMUNICATIONS

Ethernet (RJ-45)

Ethernet Realtek RTL8111EPH 1GbE[1]

1. Supports full-featured AMD DASH and hardware enforced KVM

Wireless[1]

MediaTek MT7925 Wi-Fi 7 + Bluetooth 6.0 Wireless Card (802.11be 2x2, AMD AIM-T) (Internal & External)
MediaTek RZ616 Wi-Fi 6E + Bluetooth 5.3 Wireless Card (802.11ax 2x2, AMD AIM-T) (Internal & External)

NOTE: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires Windows 11 and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.
NOTE: Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
NOTE: WiFi-6E and Wi-Fi 7 availability may be restricted by local regulations and are only available in countries where Wi-Fi 6E and Wi-Fi 7 are supported. Support may become available in additional countries through future BIOS upgrades where permitted by local regulations.
1. Wireless features, performance and support may vary based on environmental variables such as access point placement, configuration, firmware, and network conditions.

INPUT/OUTPUT

USB Interfaces:	**Front access:**	(2) USB-A 3.2
		(1) USB-C 3.2 Gen 2 port
	Rear access:	(2) USB-A 2.0 ports
		(2) USB-A 3.2 Gen 1 ports
Video Outputs:	**Standard:**	(4) DisplayPort 2.1
	With Optional Graphic Card:	(6) DisplayPort 2.1

AUDIO/VIDEO

Internal amplified speaker system for basic audio playback
3.5 mm combo headset/headphone/analog microphone audio jack (front access)

Audio CODECs

- MP3
- AAC Stereo
- HE AAC
- Includes hardware acceleration support

Video CODECs

- MPEG-4 part 2 (DivX, Xvid)
- MPEG-4 part 10 (H.264, AVC), Advanced Video Coding (AVC) (H.264 encode & decode)
- MPEG-H part 2, High Efficiency Video Coding (HEVC) H.265 (8-bit / 10-bit) decode & (8-bit) encode
- WMV 7/8/9 VC-1 & ASF Demuxer
- Includes hardware acceleration support

NETWORKING

Local Area Networking: Realtek RTL8111EPH-CG Gigabit Ethernet (GbE) Controller with support for DASH out-of-band remote management and Wake-On-Lan.[2]

Wi-Fi® Networking: MediaTek MT7925 Wi-Fi 7 + Bluetooth 6.0 Wireless Card (802.11be 2x2)
MediaTek MTRZ616 Wi-Fi 6E + Bluetooth 5.3 Wireless Card (802.11ax 2x2)
MediaTek MT7925 Wi-Fi 7 + Bluetooth 6.0 WLAN External Antenna
MediaTek MTRZ616 Wi-Fi 6E + Bluetooth 5.3 WLAN External Antenna

1. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

FIBER OPTIC NETWORKING

Adapter Options[1]:

- Allied Telesis AT-29M2 FX LC 100FX Fiber Network Adapter
- Allied Telesis AT-29M2715 FX SC 100FX Fiber Network Adapter

NOTE: Fiber optic and Wi-Fi® NIC options cannot be supported together.

Key Features:

- PCIe (PCI-Express) x1 interface
- IEEE 802.1x flow control
- IEEE 802.1p-based traffic prioritization
- TCP checksum RX/TX supported
- Audio/Video Bridging (AVB)
- Jumbo frame up to 9.6KB
- Receive-Side Scaling (RSS)
- MSI and MSI-x
- RoHS compliant
- IPv6
- IEEE 802.1p priority encoding/tagging (QoS, CoS)
- IEEE 802.1q VLAN tagging
- IEEE 802.3x flow control
- Buffer/FIFO: 22K transmit and 40K receive
- Loopback mode
- Descriptor-Based Buffer Management
- Link Detection and PHY interface power; the PHY interface, Link detection and Link LED should be enabled by default at power-up

Performance:

AT-27M2:

AT-29M2:

>= 800 Mbit/s receive, <= 30% CPU utilization
>= 800 Mbit/s transmit, <= 30% CPU utilization
>= 1500 Mbit/s total bi-directional, <= 30% CPU utilization

NOTE: The minimum transfer size at 1000 Mbit/s is 1500 Gbps.

External Interface: Complies with IEEE 802.3 100BASE-FX operation (AT-27M2) Complies with IEEE 802.3 1000BASE-X operation (AT-29M2)

Power:

- Uses less than 2100 mW of power at full performance (AT-29M2)
- Supports all PCI Express bus states L0, L0s, L1 and L2

Power: The MAC address is unique for each system; assigned from the board assembly manufacturer's IEEE registered allocation.
The PCI subsystem ID is unique to HP and unique to each design to allow Windows Update to be finally controlled.

SOFTWARE SUPPORT

Audio/Video CODECs	ThinPro	Windows 11 IoT Enterprise 2024
MP3	✓	✓
WMA stereo	✓	✓
AAC stereo & HE AAC	✓	✓
Microsoft AC3 encoder		✓
MPEG-1	✓	✓
MPEG-4 part 2 (DivX, Xvid, H.263)	✓	✓
MPEG-4 part 10 (H.264, AVC)	✓	✓
h.265/HEVC	✓	✓
WMV 7/8/9/ VC-1 & ASF Demuxer	✓	✓

Host Environment	Protocol	HP ThinPro	Microsoft Windows 11 IoT Enterprise 2024
Remote Desktop Services	Remote FX (RFX), RDP	✓	✓
Citrix®	ICA, HDX	✓	✓
VMware® Horizon	RDP, PCoIP, Blast Extreme	✓	✓

Security	HP ThinPro	Microsoft Windows 11 IoT Enterprise 2024
Smart Card	✓	✓
Log-on Manager	✓	✓
Read only Operating System	✓	✓
802.1x	✓	✓
Microsoft Defender Firewall		✓
HP Write Manager		✓
Microsoft Unified Write Filter		✓

NOTE: the HP Write Manager is the default active write filter. The Microsoft Unified Write Filter is disabled by default but can be enabled by the user if required.

Technical Specifications - Miscellaneous

Protocol Clients	HP ThinPro	Microsoft Windows 11 IoT Enterprise 2024
Citrix® Workspace app	✓	✓
Microsoft Remote Desktop Client		✓
Free Remote Desktop Client	✓	
Omissa Horizon Client™	✓	✓
HP Remote Graphics Softwarew	via add-on	via add-on
Turbosoft TTerm for Linux® Terminal emulation Software	via add-on	
Turbosoft TTWin Terminal emulation software		via add-on
AVD/Win365	Via add-on	✓
Amazon WorkSpace	via add-on	via add-on

Management Tools	HP ThinPro	Microsoft Windows 11 IoT Enterprise 2024
HP Wolf Cloud Endpoint Manager	✓	✓
HP ThinUpdate	✓	✓
HP Smart Shell	✓	
HP Smart Zero Client Services	✓	
HP USB Port Manager	✓	✓

Technical Specifications - Miscellaneous

WEIGHTS & DIMENSIONS

W x D x H: (vertical orientation)	34 x 181 x 177 mm
Volume:	1.09 liter
System Weight (unit with stand)	1220g (Heaviest)
Shipping Weight	2.95kg

NOTE: All measurements are approximate; the addition of optional modules will increase the weight.

KEYBOARDS AND POINTING DEVICES

Keyboards

HP 175 Wired Keyboard
HP 175 Antimicrobial Wired Keyboard[1]
HP 375 Secure Smartcard Keyboard

1. Available in China only

Keyboard and Mouse Combo

HP 275 Wireless Keyboard and Mouse Combo

NOTE: Keyboards contain Copilot* shortcut key.
*Microsoft Copilot in Windows is available on supported Windows 11 configurations. Some AI features require an NPU. Feature availability and timing vary by device, market, and platform. Microsoft account required. Where Microsoft Copilot in Windows is unavailable, the Copilot key may direct users to the Microsoft Bing search engine. Use of Recall requires Windows Hello Enhanced Sign in Security (ESS) and a fingerprint reader, facial recognition camera, or other compatible hardware. See http://aka.ms/WindowsAIFeatures.

Mouse

HP 175 Wired Mouse
HP 175 Antimicrobial Wired Mouse[1]

1. Available in China only.

Technical Specifications - Power

EXTERNAL POWER SUPPLY

90 Watt external 3-pin power supply or 100 Watt USB-C Fixed 2 prong 2.0m AC Power Adapter Worldwide auto-sensing 100-240 VAC; nominal voltage is 120 VAC; 50-60 Hz Energy saving automatic power-down; surge tolerant 1.8m output cable
External power adapters are sourced from several suppliers in order to ensure adequate supply and availability is maintained. The actual dimensions of the power brick will vary by supplier.

HP P/N	Vendor	Dimensions	Connector type	Power Supply
L39754-602	Chicony	127 x 51 x 30 mm	7.4mm X 5.0mm barrel with central smart-pin	90W
L31819-013	Delta	126 x 51 x 30 mm	USB-C	100W

COMPLIANCE/CERTIFICATIONS

Accessibility: Section 508 Accessibility. VPAT report available

Environmental Stewardship: Worldwide (ENERGY STAR® configurations available, EPEAT 2.0, RoHS2, EU ErP Lots 3, 7, and 6/26, TCO Certified, CECP& SEPA, HP GSE, WEEE, Low Halogen[1], etc.)

Product Safety: Worldwide (UL, CB, GS, CCC, BSMI, etc.)

Electromagnetic Compliance (EMC): Worldwide (FCC/CISPR/EN/VCCI/ICES/AS/NZS/CNS/KCC) "Class B" EMI regulations

International Medical Safety Standard: EN60601-1-2 (Medical Equipment EMC) passed.

1. This product is low halogen except for power cords, cables and peripherals, as well as the optional Fiber Optic NIC module; service parts obtained aftermarket may not be low halogen.

Technical Specifications - Security

ENVIRONMENTAL

Operating Temperature Range:	Standard: (any orientation and configured options)	50 deg to 104 deg F 10 deg to 40 deg C
Non-operating Temperature Range:	-22 deg to 140 deg F -30 deg to 65 deg C	
Humidity:	Condensing: Non-condensing:	20% to 80% 10% to 90%

NOTE: Specifications are at sea level with altitude derating of 1° C/300m (1.8° F/1000ft) to a maximum of 3 Km (10,000 ft), with no direct, sustained sunlight. Upper limit may be limited by the type and number of options installed.

Basic Configuration (does not include a fiber optic NIC):			
Energy Consumption	**115 V ac, 60 Hz**	**230 V ac, 50 Hz**	**100 V ac, 60 Hz**
Normal Operation (Short idle)	5.87 W	5.81W	5.85 W
Normal Operation (Long idle)	5.20 W	5.12 W	5.16 W
Sleep	0.67 W	0.66 W	0.67 W
Off	0.62 W	0.61 W	0.63 W
Heat Dissipation*	**115 V ac, 60 Hz**	**230 V ac, 50 Hz**	**100 V ac, 60 Hz**
Normal Operation (Short idle)	20 BTU/hr	20 BTU/hr	20 BTU/hr
Normal Operation (Long idle)	18 BTU/hr	17 BTU/hr	18 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr

NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.
System configuration includes: Windows 10 operating system, 256 GB storage, 4 GB of system memory, USB keyboard & USB mouse.

Optional Configuration (includes a fiber optic NIC):			
Energy Consumption	**115 V ac, 60 Hz**	**230 V ac, 50 Hz**	**100 V ac, 60 Hz**
Normal Operation (Short idle)	8.6 W	8.61 W	8.59 W
Normal Operation (Long idle)	7.9 W	7.86 W	7.85 W
Sleep	2.15 W	2.16 W	2.14 W
Off	1.98 W	1.98 W	1.97 W
Heat Dissipation*	**115 V ac, 60 Hz**	**230 V ac, 50 Hz**	**100 V ac, 60 Hz**
Normal Operation (Short idle)	29 BTU/hr	29 BTU/hr	29 BTU/hr
Normal Operation (Long idle)	27 BTU/hr	27 BTU/hr	27 BTU/hr
Sleep	7 BTU/hr	7 BTU/hr	7 BTU/hr
Off	7 BTU/hr	7 BTU/hr	7 BTU/hr

NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.
System configuration includes: Windows 10 operating system, (1) 512 GB NVME + (1) 128GB eMMC, (1) RX6300 Graphics Card, 16GB system memory x 2, USB keyboard & USB mouse.

Acoustic Noise Emission Declaration	
Measurement and declaration standards:	ISO 7779: Acoustics – Measurement of airborne noise emitted by information technology and telecommunications equipment
	ISO 9296: Acoustics – Declared noise emission values of computer and business equipment

Declared Noise Emission Values in accordance with ISO 9296						
Product Configuration or Operating Mode # (see section below for description)	Declared Sound Power Level, L_{Wad} Bels			Declared Sound Pressure Level, L_{pAm} dBA Tested on ISO Table		
	Idle	Operating		Idle	Operating	
	ECMA-74 C.15.3.2 Idle Mode	ECMA-74 C.9.3.2 Drive Random Seek	ECMA-74 C.15.3.3 g Active Mode	ECMA-74 C.15.3.2 Idle Mode	ECMA-74 C.9.3.2 Drive Random Seek	ECMA-74 C.15.3.3 g Active Mode
Horizontal	2.7	2.7	3.5	16.9	17.1	22.9

The Product meets the acoustic noise limits of these voluntary Eco labels:	TCO Certified Blue Angel

NOTE: Measured under ISO 7779 and ISO 9296 measurement and declaration standards.

SECURITY

TPM 2.0 endpoint security controller (Infineon SLB9672/Nuvoton NPCT760HABYX). Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified.
Absolute Persistence Permanent Disable
Enterprise Security Edition
HP Cloud Managed Permanent Disable
HP Platform Certificate
HP Platform Certificate on Device
HP Protect and Trace Permanent Disable
HP Sure Recover Permanent Disable
HP Sure Run Permanent Disable
HP Wolf Security Edition 1 year or 3 year

Security Features
HP Wolf Security for Business[1] includes:
HP Secure Erase
HP Sure Admin[17]
HP Sure Recover (Network Based)[21]
HP Sure Start[22]
HP Tamper Lock[23]

1. HP Wolf Security for Business is supported on HP Thin Client platforms with Windows IoT on AMD Ryzen processors and includes Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, Tamper Lock, Sure Click and Sure Sense. HP Wolf Security for Business with HP ThinPro OS supports Sure Start, Secure Erase, Sure Admin, Sure Recover, Sure Run, and Tamper Lock.
2. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 ""Clear"" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
3. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
4. HP Sure Recover is available on select HP PCs and requires Windows 10 or Windows 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on select PCs.
5. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
6. HP Tamper Lock must be enabled by the customer or your administrator.

Change Log

SUMMARY OF CHANGES

Date of change	Version History		Description of change
	From v1 to v2		

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