HP Z1 Entry Tower G6



World-class performance is now within reach with a desktop certified for select professional software applications. From 2D/3D CAD design to entry VR content creation, gain speed and efficiency across your professional workflows. Go beyond a PC. Upgrade to a Z.



*Product image may differ from actual product

HP recommends Windows 10 Pro for business

Pick the latest components for what you do

 Multitask with the new Intel[®] 10-core processor¹ paired with the ideal graphics for your work. Designing in CAD? Accelerate 3D workflows with NVIDIA[®] Quadro RTX[™] 5000.² Creating in VR? Go for the punch of a GeForce RTX[™] 2080 SUPER[™] instead.³

Certified to fly with professional apps

 Work confidently knowing your desktop is tested and certified for select professional apps. We've worked closely with software providers on apps like AutoCAD[®], SOLIDWORKS[®] and Revit[®] so you get seamless, reliable performance across your workflow.⁴

HP's most secure workstation.

- Advanced security features come standard on every Z1 Tower. System safeguards like self-healing BIOS help lock your device, data and identity down tight.⁵
- Be productive in any situation. Windows 10 Pro and powerful security, collaboration, and connectivity features from HP help you power through your day. 6
- Get powerful performance on single-threaded applications with the latest generation 10-core Intel[®] Core[™] processors.¹
- Create complex 2D designs and 3D models with optional certified NVIDIA[®] Quadro RTX[™] 5000 graphics.⁸
- Amp up your VR experience with fast, smooth performance with optional NVIDIA[®] GeForce RTX[™] 2080 SUPER[™] graphics.⁸
- Configure a third configurable rear I/O port for customizable display connections with your choice of VGA, DisplayPort[™], HDMI or USB-Type C[®] with DisplayPort[™].
- We know you need performance you can rely on. That's why our products endure rigorous military standard testing and software certifications.⁹
- Get fast network connectivity with 2.5Gb Ethernet interface.
- Get fast memory speeds with support for 2933MHz DDR4.⁸
- Centralize your workstation fleet and power a remote workforce with HP ZCentral, a complete hardware and software solution.¹⁰



HP Z1 Entry Tower G6 Specifications Table





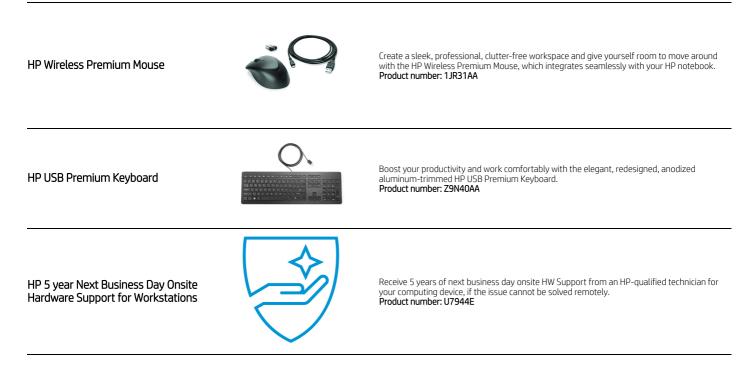


*Product image may differ from actual product

*Product image may differ from actual product	
Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business ¹ Windows 10 Pro 64 (National Academic only) ^{1,2} Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement) ¹ FreeDOS
Processor family	10th Generation Intel® Core™ i9 processor; 10th Generation Intel® Core™ i7 processor; 10th Generation Intel® Core™ i5 processor; 10th Generation Intel® Core™ i3 processor; Intel® Core™ i5 processor; 10th Generation Intel® Core™ i3 processor;
Available Processors ^{3,4,5,6,41}	Intel® Core™ i3-10100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores); Intel® Core™ i3- 10300 with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i3-10320 with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i5-10400 with Intel® UHD Graphics 630 (3.9 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i5-10400 with Intel® UHD Graphics 630 (3.9 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores); Intel® Core™ i5-10600 with Intel® UHD Graphics 630 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores); supports Intel® VPro® Technology; Intel® Core™ i5-10600 with Intel® UHD Graphics 630 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® VPro® Technology; Intel® Core™ i5-10600K with Intel® UHD Graphics 630 (4.1 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 8 cores), supports Intel® VPro® Technology; Intel® Core® i5-10600K with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® VPro® Technology; Intel® Core® i5-10600K with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 8 cores), supports Intel® VPro® Technology; Intel® Core® i5-10600K with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 5.1 GHZ with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® VPro® Technology; Intel® Core® i5-10600K with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, ICMB VPro® Technology, ICMB VPro® Technolo
Chipset	Intel® Q470 (vPro®)
Form factor	Tower
Maximum memory	128 GB DDR4-2933 SDRAM ^{7,8} Transfer rates up to 2933MT/s.
Memory slots	4 DIMM
Internal storage	500 GB up to 2 TB 7200 rpm SATA ⁹ up to 2 TB 5400 rpm SATA ⁹ up to 500 GB SATA SED Opal 2 HDD ⁹ 256 GB up to 512 GB PCle [®] NVMe [™] ML SSD ⁹ 128 GB up to 51P PCle [®] NVMe [™] TL (M.2 SSD ⁹ 256 GB up to 512 GB PCle [®] NVMe [™] SED Opal 2 TLC M.2 SSD ⁹ 256 GB up to 512 GB Intel [®] Ntemory H10 with Solid State Storage ^{9,10} 16 GB PCle [®] NVMe [™] Intel [®] Optane [™] Memory H10 with Solid State Storage ^{0,10}
Additional storage	5-in-1 SD card reader (optional)
Optical drive	HP 9.5 mm Slim DVD-Writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim Blu-ray write ^{11,18}
Available Graphics	Integrated: Intel [®] UHD Graphics 610; Intel [®] UHD Graphics 630; Discrete: NUIDL® GeForce RTX™ 3070 (8 GB GDDR6 dedicated); NUIDIA® Quadro RTX™ 4000 (8 GB GDDR6 dedicated); NUIDIA® Quadro RTX™ 5000 (16 GB GDDR6 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NUIDIA® Quadro® P2200 (5 GB GDDR5X dedicated); NVIDIA® QUadro® SUPER™ (8 GB GDDR6 dedicated); AMD Radeon™ RX 550X Graphics (4 GB GDDR5 dedicated); NVIDIA® GeForce® RTX 2060 SUPER™ (8 GB GDDR6 dedicated) ^{16,17,39}
Audio	Conexant CX20632 codec, universal audio jack with CTIA and OMTP headset support
Expansion slots	1 M.2 2230; 1 PCle 3 x16; 2 PCle 3 x1; 1 PCle 3 x16 (wired as x4); 2 M.2 2230/2242 (1 M.2 slot for WLAN and 2 M.2 2230/2242 slot for storage)
Ports and Connectors	Front: 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (15W output, DisplayPort™ 1.2) Rear: 1 audio-in/out; 1 power connector; 1 RJ-45; 2 DisplayPort™ 1.4; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 USB Type-A 480Mbps signaling rate Optional Ports: Fixe: 10 - choose one of the following options: 1 DisplayPort™ 1.4, 1 HDMI 2.0, 1 VGA, 2 SuperSpeed USB Type-A 5Gbps signaling rate (15W output, Type-C® 10Gbps signaling rate (15W output, DisplayPort™ 1.2), 1 Thunderbolt™ 3.0 with 1 serial and PS/2 ports combination ^{37,38}
Input devices	HP PS/2 Business Slim Keyboard; HP USB Keyboard; USB Smart Card (CCID) keyboard; HP USB Premium keyboard; HP Wireless Business Slim Keyboard and mouse combo; HP Wired Desktop 320K keyboard; HP USB Business Slim Antimicrobial keyboard; HP USB PS2 Washable keyboard; HP USB Healthcare Edition Keyboard and mouse combo; HP Wireless Premium Keyboard and mouse comba ⁶⁵ ; HP USB optical mouse; USB antimicrobial mouse; HP USB Healthcare Edition Keyboard and Mouse; HP Wired Desktop 320M mouse; HP PS/2 mouse; HP USB 1000 dpi laser mouse; USB antimicrobial mouse; HP USB Fingerprint Mouse ¹⁹ ;
Communications	LAN: Intel® I210-T1 PCIe® GbE; Integrated Intel® I219LM GbE LOM ¹² ; WLAN: Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo; Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® M.2 PCIe®, VPro®; Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® M.2 PCIe®, non-vPro® ^{13,14,15} ;
Drive Bays	One slim ODD; One 5.25" ODD; One 2.5" HDD; Two 3.5" HDD
Software	HP Jumpstart; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); ZCentral Remote Boost; HP Privacy Settings; HP Desktop Support Utilities ²¹
Security management	HP Secure Erase; Power-on password (via BIOS); SATA port disablement (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; USB enable/disable (via BIOS); Serial enable/disable (via BIOS); HP Sure Click; HP Sure Sense; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3; HP DriveLock and Automatic DriveLock; HP BIOSphere Gen6; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10. (Common Criteria EAL4+ Certified); HP Client Security Manager Gen6 ^{25,26,27,28,29,30,31,32,33}
Management features	HP Client Catalog (download); HP Cloud Recovery; HP Driver Packs; HP Management Integration Kit for Microsoft System Center Configuration Management Gen4; HP System Software Manager (download); HP Image Assistant Gen5 (download); HP BIOS Configuration Utility (download) ^{22,23,24}
Power	260 W 92% efficient, wide-ranging, active PFC; 350 W 92% efficient, wide-ranging, active PFC; 550 W 92% efficient, wide-ranging, active PFC ⁴⁰
Dimensions	37 x 30.8 x 16.8 cm
Weight	9.86 kg (Exact weight depends on configuration.)
Energy efficiency compliance	ENERGY STAR® certified and EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country. ³⁴
Sustainable impact specifications	Low halogen ³⁵

HP Z1 Entry Tower G6

Accessories and services (not included)



HP Z1 Entry Tower G6

Messaging Footnotes

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. Intel's numbering, branding and/or naming is not a measurement of higher performance. ² Sold separately or as an add-on feature. ³ GeForce graphics are an add-on feature that must be configured at the time of purchase.

⁶ Third party sparately. Certifications are still pending.
⁵ Based on HPS unique and comprehensive security capabilities at no additional cost on HP Workstations with Windows and 8thGen and higher Intel[®] processors or AMD Ryzen™ 4000 processors and higher.
⁶ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software of BIOS update to take full advantage of Windows functionality. Windows 10 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.
⁸ Sold separately or as an optional feature.
⁹ Undergoes MIL-STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requirements are not a guarantee of future performance under these test conditions. Accidental damage

requires an optional HP Accidental Damage Protection Care Service. ¹⁰ HP ZCentral Connect Software requires purchase of a perpetual floating license per simultaneous connection and purchase of 1 year ZCentral Connect Software Support Service and requires download at hp.com/ZCentral. Requires HP ZCentral Remote Boost Software which can be downloaded at hp.com/ZCentralRemoteBoost, a Windows 10, Windows Server 2016 or newer operating system, Microsoft Active Directory and Intel Active Management Technology for select features

Technical Specifications Footnotes

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 10 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/.
² Some devices for academic use will automatically to updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.
³ 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. Performance and clock frequency will vary depending on application workload and your hardware confluence in the processor with htel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configurations. See www.intel.com/technology/turboboost for more information.

⁵ For full Intel[®] vPro[™] functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See

http://intel.com/vpro 7 For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data

⁷ For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2666 MT/s or 2933 MT/s as depending on processor config. with 1 DIMM per channel. Additional DIMM loading on any channel may impact maximum memory speed. Actual data rate is determined by the system's configured ; See processor specifications for supported memory data rate.
⁸ All memory slots are customer accessible / upgradeable.
⁹ For hard drives and solid state drives, GB = 1 billion bytes. Rt = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.
¹⁰ Intel® Optane^M memory is sold separately. Intel® Optane^M memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP 2240 Tower/SFF, 22 Mini, ZBook Studio, 15 and 17 GS) and requires a SATA HDD, 7th Gen on higher Intel® Core^M processor or Intel[®] Xeon[®] processor or Intel[®] Xeon[®] processor for 2-1200 VG product family or higher, BIOS version with Intel[®] Optane^M memory is a x2 or x4 configuration with H=M kays that meet NWAt^{®™} Spec 1.1, and an Intel[®] Rapid Storage Technology (Intel[®] RSTI 15.5 driver.
¹¹ HD-UD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Dot t copy copyright-protected materials. With BIu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawleys Splayback on all systems is no dis separately. Availability of public wireless access points dimitered service required and sold separately. Availability of public wireless access points dimitered service required and sold separat

802.11ax is supported.

¹⁵ For full Intel[®] vPro[®] functionality. Windows, a vPro supported processor, vPro enabled 0370 chipset or higher and vPro enabled WLAN card are required

¹³ For Tull linte¹⁴ VPro⁶ functionality, Windows, a VPro supported processor, VPro enabled QJ /U chipset or inginer and VPro enabled WLAN card are required.
¹⁵ The TWR can support a single graphics card up to 3300W.
¹⁷ NUDIA® GeForce® RTX 2060 SUPER, NVIDIA® GeForce® RTX 2080 SUPER, NVIDIA® Quadro® RTX 4000, NVIDIA® Quadro® RTX 5000 require 550W chassis.
¹⁸ HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support.
¹⁹ The HP Antimicrobial USB mouse, HP USB Hardened Mouse, HP DS/2 Mouse, HP USB and PS/2 Washable Mouse: are not available in all regions.
¹⁰ Intel¹⁰ Optame¹⁰ memory is old separately. Intel¹⁰ Optame¹¹ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, Z800K Studio, 15 and 17 GS) and requires a SATA HDD. 7th Gen or higher Intel⁰ Optame¹¹ M processor CE -1200 V6 product family or higher (B0S version with Intel⁰ DPTame¹¹ M processor or Intel⁰² Conten¹¹ M processor or Intel⁰² Canter¹¹ M processor CE -1200 V6 product family or higher (B0S version with Intel⁰⁰ DPTame¹¹ Studies Conten¹¹ M processor CE - 1200 V6 product family or higher (B0S Version vith Intel⁰⁰ DPTame¹¹ Studies Conten¹¹ Studies Con

ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel[®] CoreTM processor or Intel[®] Xeon[®] processor E3-1200 V6 product family or higher, BIOS version with Intel[®] OptaneTM supported, Windows 10 version 1703 or higher, M.2 type 2280-51-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMeTM Spec 1.1, and an Intel[®] Rapid Storage Technology (Intel[®] RST) 15.5 driver. ²¹ HP Support Assistant: Requires Windows and Internet access. ²² HP Divier Packs: Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement ²³ HP Cload Recovery is available for HP Eliter and Pro desktops and laptops PCs with Intel[®] Or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-end/document/c05115630. ²⁴ HP Manageability Integration K1 can be downloaded form http://www.hp.com/go/clientmanagement . ²⁵ HP Sure Sense requires Windows 10 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome[™], and Chromium[™]. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office

or Adobe Acrobat are installed. ²⁶ HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configuration

²⁶ HP BiOSphere Gen6 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
²⁷ 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
²⁸ HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation 25PCs with select Intel® or AMD processors.
²⁹ HP Sure Run Gen3 is available on select Windows and based the Proc.
²¹ HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation 25PCs with select Intel® or AMD processors.
²³ HP Sure Run Gen3 is available on select HP PCs with Intel processors.
²⁴ HP Sure Run Gen3 is available on select HP PCs. Elite and Workstation 25PC with select Intel® or AMD processors.
²⁵ HP Sure Run Gen3 is available on select HP PCs. Elite and Workstation 25PC with select Intel® or AMD processors.
²⁴ HP Sure Run Gen3 is available on select HP PCs and the network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
²⁴ EptAPT® registration according to IEEE 1680.1-2018 EPAT® fsatus varies by country. Visit www.epeat.net for more information.
²⁵ External power supplies, power cords, calbe and peripherals are not Low Halogen.
²⁶ HP USB Business Sim Antimicrobial Keyboard not available in all regions.
²⁷ Of the following, only one option can be configured at a time: IbiplayPort™ 1.4; HDMI 2.0; 2 Type A SuperSpeed USB 10Gbps; 1 serial; Thunderbolt™ 3.0;1 USB-C® SuperSpeed USB 10Gbps (DisplayPort™ 1.2, 15W output); or VGA
²⁸ Thunderbolt™ 3.0 and Serial/PS/2 comb occupies a PCLe sidu.
²⁹ MP orthore PCA reguires S

¹⁰ Performance PCA requires 550W Power Supply

⁴¹ 125W processor requires performance PCA

Sign up for updates hp.com/go/getupdated

Copyright © 2021 HP Development Company, L.P. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein

Intel, Pentium, the Intel logo, Intel Core, Thunderbolt, vPro, Optane, and Core Inside are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Bluetooth is a trademark of its proprietor, used by HP Inc. under license. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. Adobe PDF is a trademark of Adobe Systems Incorporated. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. DisplayPort[™] and the DisplayPort[™] logo are trademarks of WIDIA logo. Quadro, and GeForce are trademarks and/or registered trademarks of NVIDIA. Corporation in the US. and other countries. Bluetooth is a trademark of its proprietor and used by HP Inc. under license. AMD and Radeon are trademarks of Advanced Micro Devices, Inc. All other trademarks are the property of their respective owners July 2021

