

OMEN Desktop 880-040



UNLEASH ABSOLUTE FURY

The OMEN Desktop is geared with a cutting-edge design, the industry's latest hardware, and easy upgradability to crush the latest AAA titles and give you the top-tier performance competition demands.

Product overview

- **Geared for the endgame:** Wild earth-shattering power with NVIDIA® GeForce® GTX graphics and an unlocked AMD processor.⁽¹⁷⁾
- **Stay cool under pressure:** All-around edge vents, two 120mm fans, and liquid cooling spell game over for overheating.
- **Levels up with you:** Infinite potential begins with tool-less access and easy upgradability.

Key specifications

- **Operating system:** Windows 10 Home⁽¹⁾
- **Processor:** AMD Ryzen™ 7 1800X Processor^(2a)
- **Memory:** 16 GB DDR4-2400 SDRAM memory⁽³⁾ (2x8 GB)
- **Hard drive:** 2 TB 7200RPM SATA hard drive^(4a)
- **Solid state drive:** 512 GB PCIe® NVMe™ M.2 Solid State Drive⁽¹⁵⁾
- **Graphics:** NVIDIA® GeForce® GTX 1080 graphics card with 8 GB GDDR5X dedicated memory⁽¹³⁾
- **Mouse and keyboard:** HP USB wired keyboard with volume control and wired optical mouse
- **Optical drive:** DVD-Writer^(6a)
- **USB ports:** 10 (2 x 2.0, 6 x 3.0, 2 x 3.0 Type-C™⁽⁴²⁾)
- **Wireless:** Wireless LAN 802.11a/b/g/n/ac (2x2) and Bluetooth® 4.2 M.2^{(19a)(26)}
- **Warranty:** 1-year limited hardware warranty

Product features

- **Windows 10 Home:** Do great things confidently with the familiar feel of Windows - only better.⁽¹⁾
- **NVIDIA® GeForce® GTX 1080 graphics:** Experience the latest in VR and 4K gaming with this advanced gaming GPU.⁽¹⁷⁾⁽³⁾
- **AMD Ryzen™ 7 Processor:** With 8 cores, 16 threads, and a 20 MB cache, this is a multi-threaded performance beast. The newly-designed, ultra-efficient architecture dominates even the most CPU intensive games, without issue.^(2a)
- **Liquid cooling:** Hassle-free thermal management helps protect sensitive components from heat overload.
- **Overclocking capability:** Boost your gaming performance with turbocharged processor speeds.⁽¹⁷⁾
- **HP OMEN Command Center:** Easily turn up your performance with included software that enables control over your CPU overclocking settings and prioritizes your gaming traffic to minimize latency.⁽¹⁷⁾
- **DTS Headphone:X™ technology:** Produces spatially accurate 3D sound through any headphones for immersive sound quality.⁽⁴⁷⁾
- **Tool-less access:** Easily swap out the hard drives or get inside the system with the included double-sided screwdriver.
- **Adheres to industry standards:** With an easy access angled design, and support for aftermarket parts, it's the ultimate DIY desktop.
- **Clear side panel:** Show off what your PC's got with a window into its internal components.
- **Superb cable management:** The motherboard keeps the PSU and messy cords out of sight.
- **Hard drive storage:** Grow your digital collections and still have room left over.
- **PCIe SSD storage:** PCIe solid state storage with up to 17x faster performance than a traditional desktop hard drive.⁽⁵⁸⁾
- **DDR4 RAM:** With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.
- **USB 2.0 and 3.0 connectors:** With the world's most popular USB connections, you can easily connect any of your existing USB devices.
- **Triple display support:** Add a second and third display for a more immersive and productive computing experience.
- **Rock-solid connections:** With the latest 802.11 a/c (2x2) WLAN adapter and Bluetooth® 4.2, all your connections are rock solid and up to 6 times faster than 802.11n 1x1.^{(1)(3)(19a)(26)}
- **Dropbox cloud storage:** If you don't have it today, sign up to get 25 GB of Dropbox space free for 12 months with your HP device.⁽²²⁾
- **McAfee LiveSafe™:** Protect your operating system with a free 1-year McAfee LiveSafe™ subscription.^(8a)

Energy efficiency your way

HP is committed to global citizenship and environmental responsibility. Do the environment—and your wallet—a favor when you use the HP OMEN that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified⁽⁶²⁾
- EPEAT® Silver registered⁽²⁷⁾
- All HP computing products are delivered by SmartWay carriers.⁽⁶³⁾
- Recycled Packaging: Count on easy recycling every time. HP designs products and packaging that can be conveniently recycled or reused.⁽³¹⁾

Warranty and support

Our Customer Support Team consistently provides quick, responsive assistance in the U.S., Canada and Latin America.

Included with your product:

- **HP's Hardware Limited Warranty:** Full warranty details are included with your product.
- **Technical Support for Software & Initial set-up:** Warranty details are included with your product.

Support Options:

- **HP Support Assistant - HPSA:** Optimized to enhance your support experience. Help for your PC and HP printers whenever you need it.^{(5a)(57)}
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽¹⁰⁾
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Forum at hp.com/go/supportforum, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.⁽¹⁰⁾

Extend your coverage:

- **SmartFriend, part of HP Care:** Experts are available 24/7 to handle any tech issue, on any device, from any brand. Visit www.hp.com/go/smartfriend to learn more or call toll-free 1.844.814.1800 to get started.⁽⁹⁵⁾
- **Care Packs:** Extend protection beyond the standard limited warranty. For more info, visit www.hp.com/go/cpc or call toll-free at 1.877.232.8009.⁽⁶³⁾



Specifications

Operating system	• Windows 10 Home ⁽¹⁾
Processor	• AMD Ryzen™ 7 1800X Processor ^(2a) • 8-Core • Liquid cooling
Processor speed	• 3.60GHz ^(2a)
Cache	• 16 MB L3 Cache
Memory	• 16 GB DDR4-2400 SDRAM memory ⁽³⁾ (2x8 GB) (expandable to 32 GB unbuffered with 16 GB DIMMs)
Hard drive	• 2 TB 7200RPM SATA hard drive ^(4b)
Solid-state drive	• 512 GB PCIe® NVMe™ M.2 Solid State Drive ⁽¹⁵⁾
Finish	• HP finish in OMEN black • Clear side panel
Optical drive	• DVD-Writer ^(6a)
Video graphics	• NVIDIA® GeForce® GTX 1080 graphics card with 8 GB GDDR5X dedicated memory ⁽¹³⁾
Network interface	• 10/100/1000 Base-T Network ⁽²⁹⁾
Wireless connectivity	• Wireless LAN 802.11a/b/g/n/ac (2x2) and Bluetooth® 4.2 M.2 ^{(19a)(26)}
Memory slots	• 4 DDR4 DIMM (288-pin) (two available)
Expansion slots	• 1 PCI-E x16 (occupied) • 1 PCI-E x4 (available) • 2 M.2 (occupied)
Expansion bays	• HDD: 3 3.5" (two available) • ODD: 1 9.5mm Ultrastim (occupied)
Memory card reader	• HP 3-in-1 Media Card Reader—Supports SD, SDHC, SDXC.
External ports	• Headphone/Microphone Combo (DTS Headphone:X® Enabled ^{(47)(49a)}) • Top I/O: 2 USB 3.0, 2 USB 3.0 Type-C™ ⁽⁴²⁾ , 1 Microphone Jack • Rear: 4 USB 3.0, 2 USB 2.0 • DVI • HDMI • 3 DisplayPort
Multi-display capable	• DVI, VGA via dongle (not included), DisplayPort and HDMI capabilities, NVIDIA® Surround™ multi-display technology, support for Microsoft® DirectX® 12 ⁽¹³⁾
Mouse and keyboard	• HP USB wired keyboard with volume control and wired optical mouse
Power supply	• 500 W Bronze efficiency power supply
Dimensions	• Unpackaged: 17.41 in (L) x 7.56 in (W) x 16.43 in (H) approx. • Packaged: 22.80 in (L) x 11.70 in (W) x 21.90 in (H) approx.
Weight	• Unpackaged: 38.80 lb approx. • Packaged: 42.30 lb approx.
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com • 90 days limited technical support for software and initial setup (from date of purchase) ⁽⁵³⁾

Learn more at hp.com

⁽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.microsoft.com> ^(2a) 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 and software configurations. AMD's numbering is not a measurement of clock speed. AMD, Radeon and Ryzen are trademarks of Advanced Micro Devices, Inc. ⁽³⁾ Up to 512MB of main system memory may be allocated to support video graphics. ^(4b) For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of drive is reserved for system recovery software. ^(6a) DVD-Writer does not support DVD RAM. Don't copy copyright protected materials. ^(8a) Internet access required and not included. Subscription required after expiration. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries. ^(10a) Internet access required and not included. ⁽¹³⁾ NVIDIA, GeForce, Surround, and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. ⁽¹⁵⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ⁽¹⁷⁾ Altering clock frequency and/or voltage may: (i) reduce system stability and useful life of the system, processor, and other system components; (ii) cause the processor and other system components to fail; (iii) cause reductions in system performance; (iv) cause additional heat or other damage; and (v) affect system data integrity. HP and Intel have not tested, and does not warranty, the operation of the processor beyond its specifications. HP and Intel have not tested, and do not warranty, the operation of other system components beyond their industry standard specifications. HP and Intel assume no responsibility that the processor and other system components, including if used with altered clock frequencies and/or voltages, will be fit for any particular purpose. ⁽¹⁸⁾ Based on HP internal testing with MP4 playing, clamshell mode, 3 meter distance from wireless access point. Actual results may vary. ^(19a) Wireless access point and Internet service required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ac WLAN devices. ⁽²²⁾ 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 www.dropbox.com. Internet service required and not included. ^(26a) Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license. ⁽²⁷⁾ EPEAT® Silver registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. ⁽²⁹⁾ Actual speeds may vary. ⁽³¹⁾ Free recycling in select countries. Program may not be available in your area. Check www.hp.com/go/recycling to see if HP offers free recycling in your area. ⁽³⁷⁾ Ultra High-definition (UHD) content required to view UHD images. ⁽⁴²⁾ USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum. ⁽⁴⁷⁾ Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume. ^(49a) For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and HEADPHONE:X and the DTS HEADPHONE:X logo are trademarks of DTS, Inc. © DTS, Inc. All Rights Reserved. ⁽⁵³⁾ Call 1.800.474.6836 or www.support.hp.com for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply. ⁽⁵⁴⁾ 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. ⁽⁵⁷⁾ Internet connection required for updating and connecting to HP Support. ⁽⁵⁸⁾ Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. ⁽⁶²⁾ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ⁽⁶³⁾ Designation based on actions to reduce transportation-related emissions. ⁽⁶⁴⁾ Internet service required and not included. Click the Office icon for more details on the Office product that is right for you. Optional features sold separately or as add-on features. ⁽⁷³⁾ Minimum Intel® Core™ i5 and 8GB RAM with VR-capable components required for VR functionality. ⁽⁸³⁾ Service levels and response times for Care Packs may vary depending on your geographic location. Restrictions and limitations apply. Service starts at date of hardware purchase. HP Care Packs are sold separately. For details, visit www.hp.com/go/carepack-services. ⁽⁸⁹⁾ HP SmartFriend will support any major brand of computer and tablet running Microsoft Windows, OSX, iOS, Android, and Chrome OS. 24x7 support is available in English and in the US & Canada (excluding the Province of Quebec) only. Service availability varies by country/region. Internet connection required for remote support. Remote support not available for tablets. Not all service plans cover support for tablets. HP SmartFriend sold separately or as an add-on feature. Actual product may vary from image shown on datasheet. © Copyright 2017 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing shall be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. All other trademarks are property of their respective owners. 05/10_r4 jr

Software

HP help and support	<ul style="list-style-type: none"> • HP Support Assistant: Help with your HP PC and printers whenever you need it. ⁽⁵⁶⁾⁽⁵⁷⁾ • HP Jumpstart: When you boot up your PC for the first time, get a personal walkthrough during the setup and get an informative overview of your PC's features.
Books, music, photos and videos	<ul style="list-style-type: none"> • DTS Headphone:X®: Produces spatially accurate 3D sound through any headphones for immersive sound quality. ^{(47)(49a)} • Netflix: Watch movies and TV online or via DVDs with subscription. ⁽¹⁰⁾ • CyberLink Power Media Player: Universal media player with enhanced playback quality.
Productivity and tools	<ul style="list-style-type: none"> • OMEN Command Center: Included software delivers easy-to-use overclocking and optimizes your network performance. ⁽¹⁷⁾ • Dropbox: Keep your files safe, synced, and easy to share with Dropbox. If you don't have it today, sign up to get 25 GB of Dropbox space free for 12 months to save and access your photos, docs, and videos across all your devices. ⁽²²⁾ • HP Orbit: This bridge between your PC and mobile device lets you share mobile content right to your PC with a simple, secure WiFi connection. • HP Recovery Manager: Recover, restore, and create recovery media for your PC. • Meet the new Office: The most powerful Office yet. Your content when and where you need it. ⁽⁶⁴⁾
Security and protection	<ul style="list-style-type: none"> • McAfee LiveSafe™: Free 1-year subscription of McAfee LiveSafe™ service included. McAfee LiveSafe service enriches your digital life by protecting your data, identity and all your devices so you can connect with confidence. ^(8a)

Additional information

Product number	• Z5M90AA#ABA
Ad embargo date	• 06/25/2017
UPC code	• 190781743545
Country of origin	• China
Tariff number	• 8471500085
Pallet information	<ul style="list-style-type: none"> • Dimensions: 47.24 in (L/D) x 39.37 in (W) x 70.28 in (H) approx. • Total weight: 793.32 lb approx. • Layers: 3 • Products per layer: 6 • Total products per pallet: 18

