

OMEN Laptop 15-ek1013dx



Turn heads wherever you game

A thin and light premium gaming experience in an elevated design so you can play everyday.

Product overview

- **Big things come in small packages:** The OMEN 15 is a perfect example of how there can never be too much of a good thing. With a powerful Intel processor and NVIDIA graphics cooled by OMEN Tempest Cooling, it makes you think how it all fits into such a tiny little package.
- **Looks do matter:** We don't need to tell you how good it looks and feels to play on, but we're going to do it anyways. It's easy on the eyes with a luscious design and fast display. Crafted with Audio by Bang & Olufsen and super long battery life, so that means you won't stop farming those wins or those admiring looks.
- **Customized to your settings:** The OMEN 15 doesn't just stop at having powerful specs and an amazing look. With OMEN Gaming Hub, you can customize and optimize everything from performance controls to the RGB keyboard. It's easy to upgrade and has all the ports you need, so you can take it even further beyond other mere gaming laptops.

Key specifications

- **Operating system:** Windows 10 Home⁽¹⁾
- **Processor:** 10th Generation Intel® Core™ i7-10750H^(2b)
- **Display:** 15.6-inch diagonal, FHD (1920 x 1080), 300 Hz, 3 ms response time, IPS, micro-edge, anti-glare⁽³⁹⁾
- **Memory:** 16 GB DDR4-2933 MHz RAM (2 x 8 GB)
- **Internal storage:** 512 GB PCIe® NVMe™ M.2 SSD^{(15)(58a)}
- **Graphics:** NVIDIA® GeForce RTX™ 3070 with Max-Q design (8 GB GDDR6 dedicated)⁽¹³⁾⁽⁶⁸⁾
- **Sound:** Audio by Bang & Olufsen with dual speakers
- **Wireless:** Intel® Wi-Fi 6 AX201 (2x2)^(19e) and Bluetooth® 5 combo⁽²⁶⁾ (Supporting Gigabit data rate)⁽⁷⁾
- **Camera:** HP Wide Vision 720p HD camera with integrated dual array digital microphones⁽⁸⁹⁾
- **Product weight:** 5.40 lb⁽⁷⁶⁾
- **Keyboard:** Full-size, 4-zone RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology

Product features

- **Windows 10 Home:** Do great things confidently with the familiar feel of Windows - only better.⁽¹⁾
- **Elevated aesthetic:** Designed with an aluminum-finished palm rest for a premium look.
- **Thin and light gaming:** A small footprint and thin and light design lets you easily take this PC with you for ultraportable gaming.
- **300Hz FHD anti-glare display:** Reduce frustrating lag and image ghosting with a lightning-fast 300Hz refresh rate, G-SYNC support, and 1080p Full HD resolution for smooth, crisp gameplay.⁽²⁰⁾⁽³⁹⁾
- **Three-sided borderless display:** Maximize your screen real estate with a three-sided micro-edge display.
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 45 minutes.⁽⁷⁸⁾
- **The Ultimate Play:** The GeForce RTX™ 3070 is powered by Ampere—NVIDIA's 2nd gen RTX architecture. Built with enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and high-speed G6 memory, it gives you the power you need to rip through the most demanding games.

Additional product features

- **NVIDIA® G-SYNC®:** By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC® technology delivers gameplay that's sharp, fluid, and stutter-free with minimal input lag.
- **10th Generation Intel® Core™ processor:** Take mobile gaming and content creation to the next-level with breakthrough performance, fast downloads and smooth streaming.⁽⁹⁾
- **OMEN Tempest Cooling Technology:** Stay cool under pressure with the advanced laptop thermal solution. 3-sided venting and 5-way airflow ensure optimal system stability and performance when gameplay heats up.
- **Single access panel:** Easy access to your PC's internals make upgrades and maintenance simple.
- **Effortlessly connected:** Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.^{(19e)(19)(26)}
- **DTS:X® Ultra Technology:** Authentic, spatially accurate 3D sound to provide the best entertainment experience.⁽⁴⁷⁾
- **An exceptionally rich audio experience:** HP Dual Speakers, HP Audio Boost, and expert tuning by Bang & Olufsen bring audio perfection to your PC.
- **PCIe® NVMe™ SSD storage:** Get up to 30x faster performance than a traditional hard drive.^(58a)
- **Enlarged imagepad:** More room on your imagepad makes controlling your PC effortless and intuitive.

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 OMEN Laptop that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified⁽⁶²⁾
- EPEAT® Silver registered⁽²⁷⁾

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.⁽⁵⁶⁾
- **Online Support:** For technical support with this product, visit HP Customer Support <http://support.hp.com>.⁽⁹⁾
- **Social Media Support:** To find solutions, ask questions, and share tips, join us on the HP Support Community at community.hp.com, on Twitter at twitter.com/HPSupport, and Facebook at facebook.com/HPSupport.⁽⁹⁾



Specifications

Operating system	• Windows 10 Home ⁽¹⁾
Processor	• 10th Generation Intel® Core™ i7-10750H ⁽²⁾ • 6-Core
Processor speed	• 2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology ⁽²⁾⁽³⁾
Processor cache	• 12 MB L3 cache
Memory	• 16 GB DDR4-2933 MHz RAM (2 x 8 GB)
Accessible memory slots	• 2
Video graphics	• NVIDIA® GeForce RTX™ 3070 with Max-Q design (8 GB GDDR6 dedicated) ⁽¹⁾⁽³⁾⁽⁶⁾⁽⁸⁾
Internal storage	• 512 GB PCIe® NVMe™ M.2 SSD ⁽¹⁾⁽⁵⁾⁽⁵⁾⁽⁸⁾
Finish and features	• Top cover: Shadow black with a metallic matte finish • Keyboard deck: Shadow black aluminum with an anodized finish
Camera	• HP Wide Vision 720p HD camera with integrated dual array digital microphones ⁽⁸⁾⁽⁹⁾
Display	• 15.6-inch diagonal, FHD (1920 x 1080), 300 Hz, 3 ms response time, IPS, micro-edge, anti-glare, 300 nits, 100% sRGB ⁽²⁾⁽³⁾⁽⁹⁾ • Support NVIDIA® G-SYNC® technology
Screen to body ratio	• 80.9% ⁽⁴⁾⁽¹⁰⁾
Network card	• Integrated 10/100/1000 GbE LAN ⁽²⁾⁽⁹⁾
Wireless connectivity	• Intel® Wi-Fi 6 AX201 (2x2) ⁽¹⁾⁽⁹⁾ and Bluetooth® 5 combo ⁽²⁾⁽⁶⁾ (Supporting Gigabit data rate) ⁽⁷⁾ • MU-MIMO supported
Digital media	• 1 Multi-format SD media card reader
Sound	• Audio by Bang & Olufsen with dual speakers
Integrated keyboard	• Full-size, 4-zone RGB backlit, shadow black keyboard and 26-Key Rollover Anti-Ghosting Key technology • HP Imagepad with multi-touch gesture support
External notebook ports	• 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10 Gbps signaling rate (DisplayPort™ 1.4, HP Sleep and Charge) ⁽⁴⁾⁽²⁾⁽⁵⁾⁽¹⁾⁽⁶⁾⁽⁴⁾ • 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge) ⁽⁴⁾⁽⁴⁾ • 2 SuperSpeed USB Type-A 5Gbps signaling rate • 1 RJ-45 • 1 Headphone/microphone combo (DTS: X® Ultra) ⁽⁴⁾⁽⁷⁾ • 1 AC Smart pin • 1 Mini DisplayPort™ • 1 HDMI 2.1
Dimensions	• Unpackaged: 14.09 in (W) x 9.44 in (D) x 0.90 in (H) • Packaged: 20.47 in (L) x 2.72 in (W) x 12.01 in (H)
Weight	• Unpackaged: 5.40 lb ⁽⁷⁾⁽⁵⁾ • Packaged: 8.05 lb
Power	• 6-cell, 70.9 Wh Li-ion polymer ⁽²⁾⁽¹⁾ • 200 W Smart AC power adapter
Warranty and support	• 1-year limited hardware warranty. Additional information available at www.support.hp.com ⁽⁹⁾ • 1-year limited technical support for software and initial setup (from date of purchase) ⁽⁵⁾⁽³⁾

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 microsoft.com ⁽²⁾ 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. Intel's numbering, branding and/or naming is not a measurement of higher performance. Intel, Pentium, Intel Core, Celeron, Iris Xe, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. ⁽³⁾ Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See intel.com/technology/turboboost for more information. GHz refers to internal clock speed of the processor. Other factors besides clock speed may impact system and application performance. ⁽⁴⁾ Wi-Fi 5 or 6 is designed to support Gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. ⁽⁵⁾ Internet access required and not included. Subscription required after 30 days trial period. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries. ⁽⁶⁾ Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. ⁽⁷⁾ ©2020 NVIDIA Corporation. NVIDIA, the NVIDIA logo, GeForce, and GeForce RTX are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. All other trademarks and copyrights are the property of their respective owners. ⁽⁸⁾ Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. ⁽⁹⁾ 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. ⁽¹⁰⁾ 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. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. ⁽¹¹⁾ Based on Wi-Fi 5 80MHz and Wi-Fi 6 160MHz minimum requirements when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported. ⁽¹²⁾ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. ⁽¹³⁾ Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors. ⁽¹⁴⁾ 100GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at dropbox.com. Internet service required and not included. ⁽¹⁵⁾ HP BIOS Protection works with Windows 10 that ships with your PC. ⁽¹⁶⁾ Bluetooth® is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. ⁽¹⁷⁾ Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information. ⁽¹⁸⁾ Actual speeds may vary. ⁽¹⁹⁾ Full High Definition (FHD) content is required to view FHD images. ⁽²⁰⁾ Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. ⁽²¹⁾ USB Type-C® and USB-A® are trademarks of USB Implementers Forum. ⁽²²⁾ 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. ⁽²³⁾ DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. ⁽²⁴⁾ Thunderbolt is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries. ⁽²⁵⁾ Call 1.800.474.6836 or support.hp.com for more information on Care Packs available after standard warranty expires. After standard warranty expires, an incident fee may apply. ⁽²⁶⁾ For more information visit hp.com/go/hpsupportassistant. (Link will vary outside of the U.S.) HP Support Assistant is only available on Windows-based PCs. Internet connection required for updating and connecting to HP Support. ⁽²⁷⁾ Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. ⁽²⁸⁾ ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. ⁽²⁹⁾ For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device. ⁽³⁰⁾ NVIDIA® Max-Q Design can help reduce system heat and noise in thinner form factor PCs. Overall graphics performance may be lower than thicker graphics card alternatives that do not utilize Max-Q design. ⁽³¹⁾ Weight and system dimensions may fluctuate due to configuration and manufacturing variances. ⁽³²⁾ Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. ⁽³³⁾ Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. Actual product may vary from image shown on datasheet. © Copyright 2021 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. 12/21/2020_r1 tg

Software

HP help and support	<ul style="list-style-type: none"> • myHP: myHP provides a simple setup and registration experience that welcomes you to your new HP PC. Customize, optimize, and secure your device with tips and tricks and easy-to-access settings, and receive helpful messages and information to keep things running smoothly. • HP BIOS Protection: Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself. ⁽²³⁾ • HP Support Assistant: Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers. ⁽⁵⁾⁽⁶⁾
Productivity and tools	<ul style="list-style-type: none"> • Adaptive Battery Optimizer: Protect battery health and bring peace of mind for uninterrupted productivity and entertainment with automatic checks on battery temperature, charging status, and usage time. • HP QuickDrop: Wirelessly transfer photos, videos, documents and more between your PC and mobile device. Easily snap a photo to share, send addresses for directions on-the-go, and view texts on your PC's screen. With HP QuickDrop, file transfers are easy, fast and reliable. ⁽⁹⁾ • OMEN Gaming Hub: OMEN Gaming Hub puts you in control of custom settings for an elite gaming experience. With just a few clicks, you can customize your keyboard, and optimize connectivity with Network Booster and Dual Force functionality. Dynamic Power Technology automatically allocates CPU and GPU power for optimal performance. ⁽¹⁷⁾ • HP Audio Switch: Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience. • HP Connection Optimizer: Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points. ⁽⁹⁾ • Dropbox cloud storage: Store and synchronize your content online with Dropbox. Get 100GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access. ⁽⁹⁾⁽¹²⁾
Security and protection	<ul style="list-style-type: none"> • McAfee LiveSafe™: Protect your operating system with a free 30-day McAfee LiveSafe™ trial. ⁽⁶⁾

Additional Information

Product number	• 350DSUA#ABA
Ad embargo date	• 03/21/2021
UPC Code	• 195697733086
Country of origin	• China
Pallet information	<ul style="list-style-type: none"> • Dimensions: 41.13 in (H) x 36.77 in (W) x 46.18 in (L) • Total weight: 734.30 lb • Layers: 3 • Products per layer: 29
Battery regulatory data	<ul style="list-style-type: none"> • Transportation or storage regulations: Y • UN# and proper shipping name: UN3481 - Lithium ion batteries packed with equipment • Number of batteries: 1 • Primary battery regulated material: 270G • Primary battery watt hours: 70.9 • Applicable CPSC regulations: N

