

# HP Pavilion Gaming Laptop 16-a0020nr



## Big screen, small laptop

A bigger gaming experience in a familiar small package.

### Product overview

- **Powered for every move:** The power to master any game. With a powerful Intel® processor and NVIDIA® graphics, this gaming laptop will tackle everything you throw at it. The enhanced thermals keep everything cool, so you can game harder, better, faster and longer.
- **Get lost in play:** Make every level mesmerizing with a fast 16-inch, micro-edge, Full HD display in a 15-inch body. Along with enhanced audio by B&O, you can see, do, hear and play more without carrying more.
- **Designed with the gamer in mind:** Stay connected from anywhere thanks to fast wireless connectivity. The large PCIe SSD makes stashing files a snap. Plus, there is a full range of I/O ports, so you've also got plenty of room for accessories.

### Key specifications

- **Operating system:** Windows 10 Home<sup>(1)</sup>
- **Processor:** 10th Generation Intel® Core™ i5-10300H<sup>(2b)</sup>
- **Display:** 16.1-inch diagonal FHD, IPS, anti-glare, micro-edge, WLED-backlit<sup>(39)</sup>
- **Memory:** 8 GB DDR4-2933 SDRAM (2 X 4 GB)
- **Internal storage:** 512 GB PCIe® NVMe™ M.2 SSD<sup>(15)(58b)</sup>
- **Graphics:** NVIDIA® GeForce® GTX 1650 Ti (4 GB GDDR6 dedicated)<sup>(13)</sup>
- **Sound:** Audio by B&O with dual speakers
- **Battery life:**
  - Up to 10 hours and 30 minutes (mixed usage)<sup>(70)</sup>
  - Up to 11 hours (video playback)<sup>(75)</sup>
  - Up to 6 hours and 30 minutes (wireless streaming)<sup>(80)</sup>
- **Wireless:** Realtek Wi-Fi 5 (2x2)<sup>(19a)</sup> and Bluetooth® 5.0 combo<sup>(26)</sup>
- **Camera:** HP TrueVision HD Camera with integrated dual array digital microphones<sup>(69)</sup>
- **Product weight:** 5.18 lb<sup>(76)</sup>
- **Keyboard:** Full-size, island-style, acid green backlit, shadow black keyboard with numeric keypad

### Product features

- **Windows 10 Home:** Do great things confidently with the familiar feel of Windows - only better.<sup>(1)</sup>
- **FHD IPS display:** Enjoy vibrant, crystal-clear images with 178° wide-viewing angles.<sup>(39)</sup>
- **Micro-edge display:** The barely visible bezel revolutionizes your display by letting a larger screen fit into a smaller frame.
- **NVIDIA® GeForce® GTX 1650 Ti graphics:** Game and stream at ultra-speed with fast technology and breakthrough graphics.<sup>(9)</sup>
- **10th Generation Intel® Core™ processor:** Take mobile gaming and content creation to the next-level with breakthrough performance, fast downloads and smooth streaming.<sup>(9)</sup>
- **Enhanced thermal solution:** The latest in heat management brings you an enhanced heat-pipe design, stabilizing your work and play in a cooling environment.
- **PCIe® NVMe™ SSD storage:** Get up to 15x faster performance than a traditional hard drive.<sup>(58b)</sup>
- **Wi-Fi 5 (2x2) & Bluetooth® 5.0:** With a Wi-Fi 5 (2x2) WLAN adapter and Bluetooth® 5.0, all your connections are rock solid.<sup>(19a)(26)</sup>

### Additional product features

- **An exceptionally rich audio experience:** HP Dual Speakers, HP Audio Boost, and tuning by B&O deliver a rich, authentic audio experience.
- **HP Fast Charge:** Go from 0 to 50% charge in approximately 45 minutes.<sup>(78)</sup>
- **Backlit keyboard with integrated numeric pad:** Keep going comfortably even in darker environments.
- **Elegant craftsmanship:** A refined convertible design features an angular profile and a chiseled look along the back.
- **Enlarged touchpad:** More room on your touchpad 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 HP Pavilion Laptop that meets strict energy-efficiency and helps reduce your carbon footprint.

- ENERGY STAR® certified<sup>(62)</sup>
- EPEAT® Silver registered<sup>(27)</sup>
- Low Halogen<sup>(61)</sup>
- Mercury-free display backlights
- Arsenic-free display glass

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

#### 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](http://www.hp.com/go/smartfriend) to learn more or call toll-free 1-844-814-1800 to get started.<sup>(95)</sup>
- **Care Packs, part of HP Care:** Extend protection beyond the standard limited warranty. For more info, visit [www.hp.com/go/carepack-services](http://www.hp.com/go/carepack-services) or call toll-free at 1-877-232-8009.<sup>(63)</sup>



## Specifications

<b>Operating system</b>	• <b>Windows 10 Home</b> <sup>(1)</sup>
<b>Processor</b>	• 10th Generation Intel® Core™ i5-10300H <sup>(2b)</sup> • Quad-core
<b>Processor speed</b>	• 2.5 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology <sup>(2g)</sup>
<b>Processor cache</b>	• 8 MB cache
<b>Memory</b>	• 8 GB DDR4-2933 SDRAM (2 x 4 GB)
<b>Accessible memory slots</b>	• 2
<b>Video graphics</b>	• NVIDIA® GeForce® GTX 1650 Ti (4 GB GDDR6 dedicated) <sup>(13)</sup>
<b>Internal storage</b>	• 512 GB PCIe® NVMe™ M.2 SSD <sup>(15)(58b)</sup>
<b>Finish and features</b>	• Top cover: Shadow black • Keyboard deck: Shadow black • Logo: Green chrome
<b>Camera</b>	• HP TrueVision HD Camera with integrated dual array digital microphones <sup>(69)</sup>
<b>Display</b>	• 16.1-inch diagonal FHD, IPS, anti-glare, micro-edge, WLED-backlit, 250 nits, 45% NTSC (1920 x 1080) <sup>(20)(39)</sup>
<b>Screen to body ratio</b>	• 80% <sup>(40)</sup>
<b>Network card</b>	• Integrated 10/100/1000 GbE LAN <sup>(29)</sup>
<b>Wireless connectivity</b>	• Realtek Wi-Fi 5 (2x2) <sup>(19a)</sup> and Bluetooth® 5.0 combo <sup>(26)</sup> • MU-MIMO supported
<b>Digital media</b>	• Multi-format SD media card reader
<b>Sound</b>	• Audio by B&O with dual speakers
<b>Integrated keyboard</b>	• Full-size, island-style, acid green backlit, shadow black keyboard with numeric keypad • HP Imagepad with multi-touch gesture support
<b>External notebook ports</b>	• 1 SuperSpeed USB Type-C® 5Gbps signaling rate (DisplayPort™ 1.4) <sup>(42)(50)</sup> • 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge) • 1 SuperSpeed USB Type-A 5Gbps signaling rate • 1 RJ-45 • 1 Headphone/microphone combo • 1 AC Smart pin • 1 HDMI 2.0
<b>Dimensions</b>	• <b>Unpackaged:</b> 14.57 in (W) x 10.33 in (D) x 0.93 in (H) • <b>Packaged:</b> 21.73 in (L) 2.72 in (W) 13.58 in (H)
<b>Weight</b>	• <b>Unpackaged:</b> 5.18 lb <sup>(76)</sup> • <b>Packaged:</b> 6.80 lb
<b>Power</b>	• 3-cell, 52.5 Wh Li-ion polymer battery • 150 W Smart AC power adapter
<b>Battery life</b>	• Up to 10 hours and 30 minutes (mixed usage) <sup>(70)</sup> • Up to 11 hours (video playback) <sup>(75)</sup> • Up to 6 hours and 30 minutes (wireless streaming) <sup>(60)</sup>

## Learn more at [hp.com](http://hp.com)

<sup>(1)</sup> 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> <sup>(2b)</sup> 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, Intel logo and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries. <sup>(2g)</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See [www.intel.com/technology/turboboost](http://www.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. <sup>(8)</sup> 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. <sup>(9)</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. <sup>(13)</sup> NVIDIA, GeForce, Surround, and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. <sup>(15)</sup> Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content. <sup>(19a)</sup> Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11ac) is backwards compatible with prior Wi-Fi 5 specs. <sup>(20)</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. <sup>(22)</sup> 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](http://www.dropbox.com). <sup>(23)</sup> Detects BIOS damage and recovers last settings. <sup>(26)</sup> Bluetooth® is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. <sup>(27)</sup> EPEAT® Silver registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at [www.hp.com/go/options](http://www.hp.com/go/options). <sup>(29)</sup> Actual speeds may vary. <sup>(39)</sup> Full High Definition (FHD) content is required to view FHD images. <sup>(40)</sup> Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk. <sup>(42)</sup> USB Type-C® and USB-A® are trademarks of USB Implementers Forum. <sup>(50)</sup> DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. <sup>(53)</sup> Call 1.800.474.6836 or [www.support.hp.com](http://www.support.hp.com) for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply. <sup>(56)</sup> For more information visit <http://www.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. <sup>(58b)</sup> Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD. <sup>(61)</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen. <sup>(62)</sup> ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency. <sup>(70)</sup> Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-2014/> for additional details. <sup>(75)</sup> Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. <sup>(76)</sup> Weight and system dimensions may fluctuate due to configuration and manufacturing variances. <sup>(78)</sup> 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. <sup>(80b)</sup> Battery life tested by HP using continuous Netflix video playback, Windows 10 Netflix app, 150 nits brightness, system audio level 17%, headphone attached, played full-screen, wireless on. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage. <sup>(83)</sup> 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](http://www.hp.com/go/carepack-services). <sup>(89)</sup> Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included. <sup>(95)</sup> 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 2020 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. 06/4/2020\_r2 tg

<b>Warranty and support</b>	<ul style="list-style-type: none"> <li>• 1-year limited hardware warranty. Additional information available at <a href="http://www.support.hp.com">www.support.hp.com</a><sup>(9)</sup></li> <li>• 90 days limited technical support for software and initial setup (from date of purchase)<sup>(53)</sup></li> </ul>
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## Software

<b>HP help and support</b>	<ul style="list-style-type: none"> <li>• <b>HP BIOS Protection:</b> Get peace of mind knowing your PC BIOS is protected. HP BIOS Protection automatically checks its health and recovers itself.<sup>(23)</sup></li> <li>• <b>HP Jumpstarts:</b> Get access to great HP solutions and learn about valuable features that come with your new HP PC.</li> <li>• <b>HP Support Assistant:</b> Included with your computer, this free self-help tool makes it easier than ever to get help with your HP PC and printers.<sup>(56)</sup></li> </ul>
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<b>Books, music, photos and videos</b>	• <b>Netflix:</b> Watch movies and TV on your PC with subscription. <sup>(9)</sup>
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<b>Productivity and tools</b>	<ul style="list-style-type: none"> <li>• <b>OMEN Command Center:</b> A single touch-point for all HP gaming systems. System Vitals dynamically display your key metrics for optimal performance, while Network Booster sends gaming network traffic to the front of the line.</li> <li>• <b>HP Audio Switch:</b> Easily switch between speaker and microphone sources with intuitive controls and a consistent app experience.</li> <li>• <b>HP Connection Optimizer:</b> Get consistent and reliable Wi-Fi performance with software that automatically switches between the most efficient wireless access points.<sup>(9)</sup></li> <li>• <b>Dropbox cloud storage:</b> Store and synchronize your content online with Dropbox. Get 25GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access.<sup>(9)(22)</sup></li> </ul>
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<b>Security and protection</b>	• <b>McAfee LiveSafe™:</b> Protect your operating system with a free 30-day McAfee LiveSafe™ trial. <sup>(8)</sup>
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## Additional Information

<b>Product number</b>	• ZL006UA#ABA
<b>Ad embargo date</b>	• 07/26/2020
<b>UPC Code</b>	• 194850516504
<b>Country of origin</b>	• China
<b>Tariff number</b>	• 8471300000
<b>Pallet information</b>	<ul style="list-style-type: none"> <li>• <b>Dimensions:</b> 47.24 in (L) x 39.37 in (W) x 45.84 in (H)</li> <li>• <b>Total weight:</b> 625.60 lb</li> <li>• <b>Layers:</b> 3</li> <li>• <b>Products per layer:</b> 29</li> </ul>
<b>Battery regulatory data</b>	<ul style="list-style-type: none"> <li>• <b>Transportation or storage regulations:</b> Y</li> <li>• <b>UN# and proper shipping name:</b> UN3481 - Lithium ion batteries packed with equipment</li> <li>• <b>Number of batteries:</b> 1</li> <li>• <b>Primary battery regulated material:</b> 210g</li> <li>• <b>Primary battery watt hours:</b> 52.5</li> <li>• <b>Applicable CPSC regulations:</b> N</li> </ul>

