



# OMEN X Laptop 17-ap000na

Push the limits of your game with the most powerful OMEN laptop yet.

Engineered for overclocking, the OMEN X Laptop lets you define your own limits. Outperform your opponents with desktop-class graphics performance, a mechanical keyboard, and easy upgradability. With this kind of power, your team is destined for glory.



**Overclocked performance. Unstoppable power.**

Includes an unlocked<sup>1</sup> Intel® Core™ processor<sup>2</sup> (HK series), factory overclocked NVIDIA GeForce® GTX® 1070 graphics. All that power stays cool with advanced thermals, so you can play even the most demanding games without throttling performance.

**Mechanical precision. Maximum immersion.**

Control the outcome of every match on a mechanical RGB LED backlit keyboard with 2.5 mm travel, N-key rollover, and customizable key maps. Stay competitive with a crisp 1080p display with 120Hz refresh rate<sup>3</sup> and NVIDIA G-SYNC™ technology.

**Easy upgrades. Enhancements you can see.**

See-through single panel access to internals makes upgrading a breeze and let's you see what your laptop's got inside. Create your ideal battle station with 2 Thunderbolt certified USB 3.1 Type-C™ ports, 3 USB 3.0 Type A ports, and an HDMI port.

OMEN



<sup>1</sup> 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 warrant, 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. <sup>2</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 is not a measurement of higher performance. <sup>3</sup> Full high-definition (FHD) content required to view FHD images. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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## Specifications

### Performance

**Operating System**

Windows 10 Home 64

**Processor**

Intel® Core™ i7-7820HK (2.9 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)<sup>6,7</sup>  
 Processor family: 7th Generation Intel® Core™ i7 processor

**Chipset**

Intel® CM238

**Memory**

16 GB DDR4-2400 SDRAM (2 x 8 GB)

**Storage**

1 TB 7200 rpm SATA  
 256 GB PCIe® NVMe™ M.2 SSD  
 Dropbox<sup>1</sup>

**Graphics**

Discrete NVIDIA® GeForce® GTX 1070 (8 GB GDDR5 dedicated)

**Audio**

Bang & Olufsen, dual speakers, HP Audio Boost, DTS Headphone:X™ support

**Display**

43.9 cm (17.3") diagonal FHD 120 Hz IPS anti-glare WLED-backlit (1920 x 1080)

**Power**

330 W AC power adapter

**Battery Type**

6-cell, 99 Wh Li-ion  
 Supports battery fast charge: approximately 50% in 30 minutes<sup>8</sup>

### Connectivity

**Network interface**

Integrated 10/100/1000 GbE LAN

**Wireless connectivity**

802.11b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 combo (Miracast compatible)

**Ports**

2 Thunderbolt™ 3 (Data Transfer up to 40 Gb/s, DP1.2, HP Sleep and Charge); 3 USB 3.1 Gen 1 (1 HP Sleep and Charge); 1 Mini DisplayPort™; 1 HDMI; 1 RJ-45; 1 headphone/microphone combo; 1 microphone-in  
 1 multi-format SD media card reader

**Webcam**

HP Wide Vision FHD Camera with integrated dual array digital microphone

### Design

**Product Color**

Shadow black; Aluminum cover finish

### Software

**HP Apps**

OMEN Command Center; HP Audio Switch; HP CoolSense; HP JumpStart

**Software**

Netflix; 1 month trial for new Microsoft® Office 365 customers

**Service & support**

McAfee LiveSafe™<sup>2</sup>

### Additional information

**Part Number**

P/N: 2PJ63EA #ABU  
 UPC/EAN code: 192018093423

**Energy Efficiency Compliance**

ENERGY STAR® certified; EPEAT® Silver registered

**Weight**

4.85 kg

**Dimensions**

42.5 x 32.72 x 3.64 cm

**Warranty**

1 year limited parts, labour, and pickup and return service; You can expand the warranty coverage of your product to reach up to 3 years in total; for more information go to the "Options and accessories" web section on hp.com product pages.

**Keyboard**

Full-size backlit keyboard with numeric keypad and NKRO  
 Touchpad with multi-touch gesture support

**Features**

NVIDIA G-SYNC™ technology

**Security management**

Kensington MicroSaver® lock slot; Trusted Platform Module (TPM) support

## Compatible accessories\*

\* Not included.

## Warranty services\*



<sup>1</sup> 25 GB 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 [www.dropbox.com](http://www.dropbox.com). Internet service required and not included.<sup>2</sup> McAfee LiveSafe 12-month free trial offer (Internet access required. First 12 months included. Subscription required for live updates afterwards.)<sup>3</sup> Estimated Windows 10 battery life based on Windows 10 / MobileMark® 2014 benchmarking. 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 [www.bapco.com](http://www.bapco.com) for additional details.<sup>4</sup> Recharges your battery up to 50% within 30 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. Available on select HP Spectre 2-in-1 and HP x2 PC models. See <http://store.hp.com> for a full list of product features.<sup>5</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 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>6</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

