HP OMEN 15-ek1620nd Intel® Core™ i7 i7-10750H Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce RTX 3060 Wi-Fi 6 (802.11ax) Windows 10 Home Black

Brand : HP **Product family:** OMEN **Product code:** 443U9EA#ABH
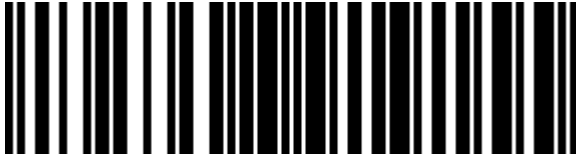
Product name : 15-ek1620nd

HP OMEN 15-ek1620nd. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-10750H, Processor frequency: 2.6 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 10 Home. Product colour: Black

Design	
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming
Country of origin	China

Display	
Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	300 cd/m²
Display diagonal (metric)	39.6 cm
RGB colour space	NTSC
Colour gamut	72%
Display response rise/fall	7 ms
Maximum refresh rate	144 Hz

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	10th gen Intel® Core™ i7
Processor model *	i7-10750H
Processor cores	6
Processor threads	12
Processor boost frequency	5 GHz
Processor frequency *	2.6 GHz
Processor cache	12 MB

Network	
Bluetooth version	5.0
Miracast	✔
MIMO	✔
MIMO type	Multi User MIMO

Ports & interfaces	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Mini DisplayPorts quantity	1
Thunderbolt 3 ports quantity	1
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	2

Performance	
Motherboard chipset	Intel HM470
Temperature sensor	✔

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit colour	RGB
Full-size keyboard	✔
Keyboard layout	QWERTY

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 10 Home

Processor	
Processor cache type	L3
Configurable TDP-down	35 W

Memory	
Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2933 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 8 GB
Memory slots	2x SO-DIMM
Memory slots (available)	2
Maximum internal memory *	32 GB
ECC	✘

Storage	
Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express, NVMe
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics	
Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 3060
Discrete graphics card memory	6 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card model *	Intel® UHD Graphics

Audio	
Audio system	Bang & Olufsen
Number of built-in speakers	2
Built-in microphone	✔
Number of microphones	2

Camera	
Front camera	✔
Front camera HD type	HD

Network	
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6 AX201
WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔

Processor special features	
Enhanced Intel SpeedStep Technology	✔
Intel Flex Memory Access	✔
Intel Trusted Execution Technology	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Stable Image Platform Program (SIPP)	✘
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔

Brand-specific features	
HP Audio Boost	✔
HP speaker type	HP Dual Speakers
HP Smart AC Adapter	✔
HP Imagepad	✔
HP front camera	HP Wide Vision HD
HP segment	Home

Battery	
Battery technology	Lithium Polymer (LiPo)
Number of battery cells	6
Battery capacity *	70.9 Wh
Fast charging	✔
Fast charging time (50%)	45 min
Battery weight	270 g

Power	
AC adapter power	200 W
DC-in jack	✔

Security	
Fingerprint reader	✘

Sustainability	
Sustainability certificates	ENERGY STAR, EPEAT Silver

Weight & dimensions	
Width	357.9 mm
Depth	239.7 mm
Height	22.9 mm
Weight *	2.45 kg

Packaging data	
Package width	69 mm
Package depth	520 mm
Package height	305 mm
Package weight	3.65 kg

Logistics data	
Harmonized System (HS) code	84713000

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