



HP OMEN 15-ek1420nd Intel® Core™ i7 i7-10870H Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 1 TB SSD NVIDIA GeForce RTX 3060 Wi-Fi 6 (802.11ax) Windows 10 Home Black

Brand : HP

Product family: OMEN

Product code: 386C8EA#ABH

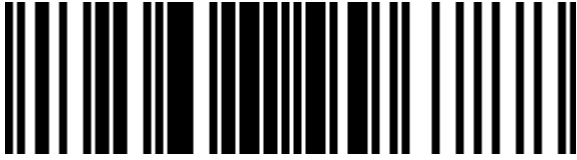
Product name : 15-ek1420nd



HP OMEN 15-ek1420nd. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-10870H, Processor frequency: 2.2 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: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 10 Home. Product colour: Black

Design		Network	
Product type *	Laptop	Bluetooth	✓
Product colour *	Black	Bluetooth version	5.0
Form factor *	Clamshell	Miracast	✓
Market positioning	Gaming	MIMO	✓
Country of origin	China	MIMO type	Multi User MIMO
Display		Ports & interfaces	
Display diagonal *	39.6 cm (15.6")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Display resolution *	1920 x 1080 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	Full HD	HDMI version	2.1
Panel type	IPS	Mini DisplayPorts quantity	1
LED backlight	✓	Thunderbolt 3 ports quantity	1
Native aspect ratio	16:9	Combo headphone/mic port	✓
Anti-glare screen	✓	USB Type-C DisplayPort Alternate Mode	✓
Display bezel technology	Micro-Edge	USB Sleep-and-Charge	✓
Display brightness	300 cd/m ²	USB Sleep-and-Charge ports	2
Display diagonal (metric)	39.6 cm	Performance	
RGB colour space	NTSC	Motherboard chipset	Intel HM470
Colour gamut	72%	Temperature sensor	✓
Display response rise/fall	7 ms	Keyboard	
Maximum refresh rate	144 Hz	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i7	Full-size keyboard	✓
Processor generation	10th gen Intel® Core™ i7	Keyboard layout	QWERTY
Processor model *	i7-10870H	Software	
Processor cores	8	Operating system architecture	64-bit
Processor threads	16		
Processor boost frequency	5 GHz		
Processor frequency *	2.2 GHz		
Processor cache	16 MB		

Processor		Software	
Processor cache type	L3	Operating system installed *	Windows 10 Home
Configurable TDP-down	35 W	Processor special features	
Memory		Enhanced Intel SpeedStep Technology	✓
Internal memory *	16 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speed	2933 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✗
Memory layout (slots x size)	2 x 8 GB	Intel Software Guard Extensions (Intel SGX)	✓
Memory slots	2x SO-DIMM	Intel 64	✓
Memory slots (available)	2	Execute Disable Bit	✓
Maximum internal memory *	32 GB	Idle States	✓
ECC	✗	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	1 TB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	SSD	Intel Virtualization Technology (VT-x)	✓
Total SSDs capacity	1 TB	Brand-specific features	
Number of SSDs installed	1	HP Audio Boost	✓
SSD capacity	1 TB	HP speaker type	HP Dual Speakers
SSD memory type	TLC	HP Smart AC Adapter	✓
SSD interface	NVMe, PCI Express	HP Imagepad	✓
NVMe	✓	HP front camera	HP Wide Vision HD
SSD form factor	M.2	HP segment	Home
Optical drive type *	✗	Battery	
Card reader integrated	✓	Battery technology	Lithium Polymer (LiPo)
Compatible memory cards	SD	Number of battery cells	6
Graphics		Battery capacity *	70.9 Wh
Discrete GPU manufacturer	NVIDIA	Fast charging	✓
Discrete graphics card model *	NVIDIA GeForce RTX 3060	Fast charging time (50%)	45 min
Discrete graphics card memory	6 GB	Battery weight	270 g
Discrete graphics memory type	GDDR6	Power	
On-board graphics card *	✓	AC adapter power	200 W
On-board GPU manufacturer	Intel	DC-in jack	✓
Discrete graphics card *	✓	Security	
On-board graphics card model *	Intel® UHD Graphics	Fingerprint reader	✗
Audio		Sustainability	
Audio system	Bang & Olufsen	Sustainability certificates	ENERGY STAR, EPEAT Silver
Number of built-in speakers	2	Weight & dimensions	
Built-in microphone	✓	Width	357.9 mm
Number of microphones	2	Depth	239.7 mm
Camera		Height	22.9 mm
Front camera	✓	Weight *	2.45 kg
Front camera HD type	HD	Packaging data	
Network		Package width	69 mm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Package depth	520 mm
Wi-Fi standards	Wi-Fi 6 (802.11ax)	Package height	305 mm
Mobile network connection *	✗	Package weight	3.65 kg
Antenna type	2x2	Logistics data	
WLAN controller model	Intel Wi-Fi 6 AX201	Harmonized System (HS) code	84713000
WLAN controller manufacturer	Intel		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		



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