



# OMEN by HP 17-ck2000na Intel® Core™ i9 i9-13900HX Laptop 43.9 cm (17.3") Quad HD 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : HP

Product family: OMEN by HP

Product code: 7K835EA

Product name : 17-ck2000na



- Intel® Core™ i9-13900HX (up to 5.4 GHz with Intel® Turbo Boost Technology, 36 MB L3 cache, 24 cores, 32 threads)
  - Windows 11 Home
  - 43.9 cm (17.3") diagonal QHD display
  - NVIDIA® GeForce RTX™ 4080 Laptop GPU (12 GB GDDR6 dedicated)
  - 32 GB memory; 2 TB SSD storage
- OMEN by HP Laptop 17-ck2000na, Windows 11 Home, 17.3", Intel® Core™ i9, 32GB RAM, 2TB SSD, NVIDIA® GeForce RTX™ 4080, QHD, Shadow black

OMEN by HP 17-ck2000na Intel® Core™ i9 i9-13900HX Laptop 43.9 cm (17.3") Quad HD 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black:

Powerful gaming, anytime, anywhere

Step up your game with the OMEN by HP 17.3" Gaming Laptop PC, powered by a 13th Gen Intel® Core™ Processor<sup>[1]</sup> and NVIDIA® GeForce RTX™ Graphics. The floating hinge design and high-res, fast refresh rate display lets you play at your best from anywhere. Customize game play with the OMEN Gaming Hub and stay cool with OMEN Tempest Cooling technology<sup>[2]</sup>.



Design		Network	
Colour name	Shadow black cover and base, shadow black aluminum keyboard frame	Bluetooth version	5.3
Product type *	Laptop	MIMO	✓
Product colour *	Black	MIMO type	Multi User MIMO
Form factor *	Clamshell	Cabling technology	10/100/1000Base-T(X)
Market positioning	Gaming	Ports & interfaces	
Product design	Paint finish cover and base, sandblasted keyboard frame	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Original brand name	HP	Ethernet LAN (RJ-45) ports	1
Display		HDMI ports quantity *	1
Display diagonal *	43.9 cm (17.3")	HDMI version	2.1
Display resolution *	2560 x 1440 pixels	Mini DisplayPorts quantity	1
Touchscreen *	✗	Thunderbolt 4 ports quantity	1
HD type	Quad HD	Intel® Thunderbolt 4	✓
Panel type	IPS	Combo headphone/mic port	✓
Native aspect ratio	16:9	Charging port type	USB Type-C
Anti-glare screen	✓	USB Type-C DisplayPort Alternate Mode	✓
Display bezel technology	Micro-Edge	USB Power Delivery	✓
Display brightness	300 cd/m <sup>2</sup>	USB Sleep-and-Charge	✓
Display diagonal (metric)	43.9 cm	USB Sleep-and-Charge ports	2
RGB colour space	sRGB	Performance	
Colour gamut	100%	Temperature sensor	✓
Display response rise/fall	3 ms	Keyboard	
Maximum refresh rate	240 Hz	Pointing device	Touchpad
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i9	Keyboard backlit colour	RGB
Processor generation	13th gen Intel® Core™ i9	Full-size keyboard	✓
Processor model *	i9-13900HX		
Processor cores	24		
Processor boost frequency	5.4 GHz		

<b>Processor</b>		<b>Software</b>	
Processor frequency *	2.2 GHz	Pre-installed software	ExpressVPN (30 day free trial); LastPass Premium (30 day free trial), 1 month trial for new Microsoft 365 customers, McAfee LiveSafe™; Xbox Game Pass 1-month free trial
Processor cache	36 MB		
Processor cache type	L3	Trial software	25 GB Dropbox storage for 12 months
Bus type	DMI4		
Motherboard chipset	Intel HM770	Operating system installed *	Windows 11 Home
Configurable TDP-down	45 W		
<b>Memory</b>		<b>Processor special features</b>	
Internal memory *	32 GB	Intel Flex Memory Access	✓
Internal memory type	DDR5-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory clock speed	5600 MHz	CPU configuration (max)	1
Memory layout (slots x size)	2 x 16 GB	Embedded options available	✗
Memory slots (available)	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of free internal memory expansion slots	2	Intel Virtualization Technology (VT-x)	✓
<b>Storage</b>		<b>Brand-specific features</b>	
Total storage capacity *	2 TB	HP Audio Boost	✓
Storage media *	SSD	HP Imagepad	✓
Total SSDs capacity	2 TB	HP Security tools	Trusted Platform Module (Firmware TPM) support
Number of SSDs installed	1	HP Software provided	HP Support Assistant; HP Connection Optimizer; HP QuickDrop; MyHP; OMEN Gaming Hub
SSD capacity	2 TB	HP segment	Home
SSD memory type	TLC	HP GTIN (EAN/UPC)	197192578537
SSD interface	PCI Express		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
Card reader integrated	✓		
Compatible memory cards	SD		
<b>Graphics</b>		<b>Battery</b>	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Number of battery cells	6
On-board graphics card *	✓	Battery capacity *	83 Wh
On-board GPU manufacturer	Intel	Battery life (max)	5.5 h
Discrete graphics card *	✓	Continuous video playback time	6.5 h
On-board graphics card model *	Intel® UHD Graphics	Fast charging	✓
Discrete graphics card memory	12 GB	Fast charging time (50%)	30 min
Discrete graphics memory type	GDDR6X	Battery weight	315 g
NVIDIA G-SYNC	✓		
<b>Audio</b>		<b>Power</b>	
Audio system	B&O PLAY	AC adapter power	330 W
Built-in speaker(s)	✓	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
Speakers manufacturer	Bang & Olufsen		
Built-in microphone	✓	<b>Security</b>	
Number of microphones	2	Trusted Platform Module (TPM)	✓
		Password protection	✓
		Password protection type	BIOS, Power on, User
<b>Camera</b>		<b>Sustainability</b>	
Front camera	✓	Sustainability certificates	EPEAT Silver
Front camera HD type	HD	Sustainable technologies and materials	Ocean-bound plastic in speaker enclosure(s); Recycled metal in keyboard frame and hinge cap(s); Keyboard keycaps made with post-consumer recycled plastic
<b>Network</b>		<b>Weight &amp; dimensions</b>	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Width	397.1 mm
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Depth	262 mm
Mobile network connection *	✗	Height	27 mm
Antenna type	2x2	Weight *	2.78 kg
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel	<b>Packaging data</b>	
Ethernet LAN	✓	Package width	69 mm
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		

**Packaging data**

Package depth	624 mm
Package height	345 mm
Package weight	5.45 kg

**Packaging content**

Keyboard included	✓
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**Logistics data**

Harmonized System (HS) code	8471300000
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**Other features**

Number of speakers	2
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