



OMEN by HP 17-ck2001na Intel® Core™ i7 i7-13700HX Laptop 43.9 cm (17.3") Quad HD 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 4080 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : HP

Product family: OMEN by HP

Product code: 7K836EA

Product name : 17-ck2001na



- Intel® Core™ i7-13700HX (up to 5.0 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 24 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; 1 TB SSD storage
- OMEN by HP Laptop 17-ck2001na, Windows 11 Home, 17.3", Intel® Core™ i7, 32GB RAM, 1TB SSD, NVIDIA® GeForce RTX™ 4080, QHD, Shadow black

OMEN by HP 17-ck2001na Intel® Core™ i7 i7-13700HX Laptop 43.9 cm (17.3") Quad HD 32 GB DDR5-SDRAM 1 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^[1] 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^[2].



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 ²	USB Sleep-and-Charge	✓
Display diagonal (metric)	43.9 cm	USB Sleep-and-Charge ports	2
RGB colour space	sRGB	Performance	
Colour gamut	100%	Motherboard chipset	Intel HM770
Display response rise/fall	3 ms	Temperature sensor	✓
Maximum refresh rate	240 Hz	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Numeric keypad *	✗
Processor family *	Intel® Core™ i7	Keyboard backlit	✓
Processor generation	13th gen Intel® Core™ i7	Keyboard backlit colour	RGB
Processor model *	i7-13700HX	Full-size keyboard	✓
Processor cores	16		
Processor threads	24		

Processor		Software	
Processor boost frequency	5 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 frequency *	2.1 GHz		
Processor cache	30 MB	Trial software	25 GB Dropbox storage for 12 months
Processor cache type	Smart Cache		
Bus type	DMI4	Operating system installed *	Windows 11 Home
Configurable TDP-down	45 W		
Memory		Processor special features	
Internal memory *	32 GB	Intel Flex Memory Access	✓
Internal memory type	DDR5-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory clock speed	4800 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)	✓
Non-ECC	✓	Brand-specific features	
Storage		HP Audio Boost	✓
Total storage capacity *	1 TB	HP Imagepad	✓
Storage media *	SSD	HP Security tools	Trusted Platform Module (Firmware TPM) support
Total SSDs capacity	1 TB	HP Software provided	HP Support Assistant; HP Connection Optimizer; HP QuickDrop; MyHP; OMEN Gaming Hub
Number of SSDs installed	1	HP segment	Home
SSD capacity	1 TB	HP GTIN (EAN/UPC)	197192578544
SSD memory type	TLC	Battery	
SSD interface	PCI Express	Battery technology	Lithium Polymer (LiPo)
NVMe	✓	Number of battery cells	6
SSD form factor	M.2	Battery capacity *	83 Wh
Optical drive type *	✗	Battery life (max)	5.5 h
Card reader integrated	✓	Continuous video playback time	6.5 h
Compatible memory cards	SD	Fast charging	✓
Graphics		Fast charging time (50%)	30 min
Discrete GPU manufacturer	NVIDIA	Battery weight	315 g
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Power	
Discrete graphics card memory	12 GB	AC adapter power	330 W
Discrete graphics memory type	GDDR6X	AC adapter frequency	50 - 60 Hz
On-board graphics card *	✓	AC adapter input voltage	100 - 240 V
On-board GPU manufacturer	Intel	Security	
Discrete graphics card *	✓	Trusted Platform Module (TPM)	✓
On-board graphics card model *	Intel® UHD Graphics	Password protection	✓
NVIDIA G-SYNC	✓	Password protection type	BIOS, Power on, User
Audio		Sustainability	
Audio system	B&O PLAY	Sustainability certificates	EPEAT Silver
Built-in speaker(s)	✓	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
Number of built-in speakers	2	Weight & dimensions	
Speakers manufacturer	Bang & Olufsen	Width	397.1 mm
Built-in microphone	✓	Depth	262 mm
Number of microphones	2	Height	27 mm
Camera		Weight *	2.78 kg
Front camera	✓	Packaging data	
Front camera HD type	HD	Package width	69 mm
Network			
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		
Mobile network connection *	✗		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Ethernet LAN	✓		
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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