



OMEN by HP 17-cb0005na Intel® Core™ i7 i7-9750H Laptop 43,9 cm (17.3") Full HD 16 GB DDR4-SDRAM 1,51 TB HDD+SSD NVIDIA® GeForce RTX™ 2060 Wi-Fi 6 (802.11ax) Windows 10 Home Black



Brand : HP

Product family: OMEN by HP

Product code: 7EC51EA

Product name : 17-cb0005na

- Windows 10 Home 64-bit
- Intel Core i7-9750H (12MB Cache, 2.6GHz)
- 43.9 cm (17.3") Full HD 1920 x 1080 IPS, NVIDIA GeForce RTX 2060 (6GB GDDR6)
- 16GB (2666MHz) DDR4-SDRAM (2 x 8) & 1000GB HDD, 512GB SSD
Intel Core i7-9750H (12MB Cache, 2.6GHz), 16GB DDR4-SDRAM, 1000GB HDD, 512GB SSD, 43.9 cm (17.3") Full HD 1920 x 1080 IPS, Intel UHD Graphics 630, NVIDIA GeForce RTX 2060 (6GB GDDR6), LAN, WLAN, Bluetooth, HP Wide Vision HD, Windows 10 Home 64-bit

OMEN by HP 17-cb0005na Intel® Core™ i7 i7-9750H Laptop 43,9 cm (17.3") Full HD 16 GB DDR4-SDRAM 1,51 TB HDD+SSD NVIDIA® GeForce RTX™ 2060 Wi-Fi 6 (802.11ax) Windows 10 Home Black:

Desktop power packed in a laptop

Stunning desktop-grade power in a sleek, portable design keeps you playing your best wherever gaming takes you. Take on the most demanding AAA game titles with NVIDIA® GeForce® graphics and a 9th generation Intel® Core™ processor^[1]. Immerse yourself in smooth gameplay on a narrow-bezel display with fast refresh rates.

Design		Network	
Product type *	Laptop	Bluetooth version	5.0
Product colour *	Black	Miracast	✓
Form factor *	Clamshell	MIMO	✓
Market positioning	Gaming	MIMO type	Multi User MIMO
Country of origin	China	Ports & interfaces	
Display		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Display diagonal *	43,9 cm (17.3")	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display resolution *	1920 x 1080 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	Full HD	Mini DisplayPorts quantity	1
Panel type	IPS	Microphone in	✓
LED backlight	✓	Combo headphone/mic port	✓
Native aspect ratio	16:9	USB Sleep-and-Charge	✓
Anti-glare screen	✓	Performance	
Display brightness	300 cd/m ²	Motherboard chipset	Intel® HM370
Display diagonal (metric)	43,9 cm	Accelerometer	✓
RGB colour space	sRGB	Keyboard	
Colour gamut	100%	Pointing device	Touchpad
Display response rise/fall	7 ms	Numeric keypad *	✓
Maximum refresh rate	144 Hz	Keyboard backlit	✓
Processor		Island-style keyboard	✓
Processor manufacturer *	Intel	Full-size keyboard	✓
Processor family *	Intel® Core™ i7	Software	
Processor generation	9th gen Intel® Core™ i7	Operating system architecture	64-bit
Processor model *	i7-9750H	Pre-installed software	Netflix
Processor cores	6	Trial software	Microsoft Office 365, McAfee LiveSafe
Processor threads	12	Operating system installed *	Windows 10 Home
Processor boost frequency	4,5 GHz		
Processor frequency *	2,6 GHz		
System bus rate	8 GT/s		
Processor cache	12 MB		
Processor cache type	L3		

Processor		Software	
Processor socket	BGA 1440	Bundled software	Dropbox
Processor lithography	14 nm	Processor special features	
Processor operating modes	64-bit	Intel® My WiFi Technology (Intel® MWT)	✓
Processor codename	Coffee Lake	Intel® Identity Protection Technology (Intel® IPT)	✓
Thermal Design Power (TDP)	45 W	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Configurable TDP-down	35 W	Intel® Turbo Boost Technology	2.0
Tjunction	100 °C	Enhanced Intel SpeedStep Technology	✓
Maximum number of PCI Express lanes	16	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® InTru™ 3D Technology	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	16 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	2666 MHz	Intel Trusted Execution Technology	✗
Memory form factor	SO-DIMM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory layout (slots x size)	2 x 8 GB	Intel® Secure Key	✓
Memory slots	2x SO-DIMM	Intel TSX-NI	✗
Memory slots (available)	2	Intel Stable Image Platform Program (SIPP)	✗
ECC	✗	Intel® OS Guard	✓
Storage		Intel Software Guard Extensions (Intel SGX)	✓
Total storage capacity *	1,51 TB	Intel 64	✓
Storage media *	HDD+SSD	Execute Disable Bit	✓
Total HDDs capacity	1 TB	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	1 TB	Processor package size	42 x 28 mm
HDD interface	SATA	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
HDD speed	7200 RPM	CPU configuration (max)	1
Total SSDs capacity	512 GB	Embedded options available	✗
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	512 GB	Intel Virtualization Technology (VT-x)	✓
SSD interface	NVMe	Processor ARK ID	191045
NVMe	✓	Brand-specific features	
SSD form factor	M.2	HP JumpStart	✓
Optical drive type *	✗	HP 3D DriveGuard	✓
Card reader integrated	✓	HP Audio Boost	✓
Compatible memory cards	SD	HP speaker type	HP Dual Speakers
Graphics		HP Audio Switch	✓
Discrete GPU manufacturer	NVIDIA	HP Support Assistant	✓
Discrete graphics card model *	NVIDIA® GeForce RTX™ 2060	HP front camera	HP Wide Vision HD
Discrete graphics card memory	6 GB	HP segment	Home
Discrete graphics memory type	GDDR6	Battery	
On-board graphics card *	✓	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card *	✓	Number of battery cells	4
On-board graphics card family	Intel® UHD Graphics	Battery capacity *	70 Wh
On-board graphics card model *	Intel® UHD Graphics 630	Fast charging	✓
On-board graphics card base frequency	350 MHz	Fast charging time (50%)	45 min
On-board graphics card dynamic frequency (max)	1150 MHz	Battery weight	222 g
Maximum on-board graphics card memory	64 GB		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.5		
On-board graphics card ID	0x3E9B		
Audio			
Audio system	Bang & Olufsen		

Audio		Power	
Number of built-in speakers	2	AC adapter power	200 W
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	EPEAT Silver, ENERGY STAR
Front camera	✓	Weight & dimensions	
Front camera HD type	HD	Width	405 mm
Network		Depth	295 mm
Wi-Fi	✓	Height	27 mm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Weight *	3,31 kg
Wi-Fi standards	Wi-Fi 6 (802.11ax)	Packaging data	
Antenna type	2x2	Package width	598 mm
WLAN controller model	Intel Wi-Fi 6 AX200	Package depth	345 mm
WLAN controller manufacturer	Intel	Package height	69 mm
Ethernet LAN	✓	Package weight	4,7 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	Packaging content	
Bluetooth	✓	AC adapter included *	✓
		Other features	
		Graphics card interface	PCIe x16



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