



OMEN by HP 17-cb1521na Intel® Core™ i7 i7-10750H 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: 17G21EA

Product name : 17-cb1521na

- Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores)
 - Windows 10 Home
 - 43.9 cm (17.3") diagonal, FHD (1920 x 1080), 144 Hz, 7 ms response time, IPS, anti-glare, 300 nits, 100% sRGB
 - NVIDIA® GeForce RTX™ 2060 (6 GB GDDR6 dedicated)
 - 16 GB memory; 1 TB HDD storage; 512 GB SSD storage
- OMEN by HP Laptop 17-cb1521na, 17.3", Windows 10 Home, Intel® Core™ i7, 16GB RAM, 512GB SSD, 1TB HDD, NVIDIA® GeForce RTX™ 2060, FHD, Shadow black

OMEN by HP 17-cb1521na Intel® Core™ i7 i7-10750H 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:



Big rig power. Compact design.

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® graphics and a 10th generation Intel® Core™ processor¹¹. Immerse yourself in smooth gameplay on a narrow-bezel display with fast refresh rates.

Design		Network	
Colour name	Shadow black	Ethernet LAN data rates	10,100,1000 Mbit/s
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 *	43.9 cm (17.3")	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	2.0a
Panel type	IPS	Mini DisplayPorts quantity	1
LED backlight	✓	Thunderbolt 3 ports quantity	1
Native aspect ratio	16:9	Microphone in	✓
Anti-glare screen	✓	Combo headphone/mic port	✓
Display brightness	300 cd/m²	USB Type-C DisplayPort Alternate Mode	✓
Display diagonal (metric)	43.9 cm	USB Sleep-and-Charge	✓
RGB colour space	sRGB	USB Sleep-and-Charge ports	2
Colour gamut	100%	Performance	
Display response rise/fall	7 ms	Motherboard chipset	Intel HM470
Maximum refresh rate	144 Hz	Accelerometer	✓
Processor		Keyboard	
Processor manufacturer *	Intel	Pointing device	Touchpad
Processor family *	Intel® Core™ i7	Numeric keypad *	✓
Processor generation	10th gen Intel® Core™ i7	Keyboard backlight	✓
Processor model *	i7-10750H	Keyboard backlight colour	Various
Processor cores	6	Island-style keyboard	✓
Processor threads	12	Full-size keyboard	✓
Processor boost frequency	5 GHz		
Processor frequency *	2.6 GHz		
System bus rate	8 GT/s		

Processor		Software	
Processor cache	12 MB	Operating system architecture	64-bit
Processor cache type	L3	Pre-installed software	Dropbox; Netflix
Processor socket	BGA 1440	Trial software	McAfee LiveSafe, Microsoft Office 365
Processor lithography	14 nm	Operating system installed *	Windows 10 Home
Processor operating modes	64-bit		
Processor codename	Comet Lake		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	3.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
Memory		Processor special features	
Internal memory *	16 GB	Intel® Identity Protection Technology (Intel® IPT)	✓
Internal memory type	DDR4-SDRAM	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory clock speed	2933 MHz	Enhanced Intel SpeedStep Technology	✓
Memory form factor	SO-DIMM	Intel® Quick Sync Video Technology	✓
Memory layout (slots x size)	2 x 8 GB	Intel Flex Memory Access	✓
Memory slots	2x SO-DIMM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory slots (available)	2	Intel Trusted Execution Technology	✗
ECC	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Storage		Intel® Secure Key	✓
Total storage capacity *	1.51 TB	Intel Stable Image Platform Program (SIPP)	✗
Storage media *	HDD+SSD	Intel® OS Guard	✓
Total HDDs capacity	1 TB	Intel Software Guard Extensions (Intel SGX)	✓
Number of HDDs installed	1	Intel 64	✓
HDD capacity	1 TB	Execute Disable Bit	✓
HDD interface	SATA	Idle States	✓
HDD speed	7200 RPM	Thermal Monitoring Technologies	✓
Total SSDs capacity	512 GB	Processor package size	42 x 28 mm
Number of SSDs installed	1	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
SSD capacity	512 GB	CPU configuration (max)	1
SSD interface	PCI Express, NVMe	Embedded options available	✗
NVMe	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD form factor	M.2	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	✗	Processor ARK ID	201837
Card reader integrated	✓		
Compatible memory cards	SD		
Graphics		Brand-specific features	
Discrete GPU manufacturer	NVIDIA	HP OMEN Command Center	✓
Discrete graphics card model *	NVIDIA® GeForce RTX™ 2060	HP JumpStart	✓
Discrete graphics card memory	6 GB	HP 3D DriveGuard	✓
Discrete graphics memory type	GDDR6	HP Audio Boost	✓
On-board graphics card *	✓	HP Audio Boost generation	Gen 2
Discrete graphics card *	✓	HP speaker type	HP Dual Speakers
On-board graphics card model *	Intel® UHD Graphics	HP Audio Switch	✓
On-board graphics card base frequency	350 MHz	HP Support Assistant	✓
On-board graphics card dynamic frequency (max)	1150 MHz	HP Smart AC Adapter	✓
On-board graphics card DirectX version	12.0	HP front camera	HP Wide Vision HD
On-board graphics card OpenGL version	4.5	HP segment	Home
On-board graphics card ID	0x9BC4		
Audio		Battery	
Number of built-in speakers	2	Battery technology	Lithium Polymer (LiPo)
Built-in microphone	✓	Number of battery cells	4
Number of microphones	2	Battery capacity *	70 Wh
		Fast charging	✓
		Fast charging time (50%)	45 min
		Battery weight	287 g
		Power	
		AC adapter power	230 W
		Sustainability	
		Sustainability certificates	EPEAT Silver, ENERGY STAR

Camera		Weight & dimensions	
Front camera	✓	Width	405 mm
Front camera HD type	HD	Depth	285 mm
Network		Height	29.9 mm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Weight *	3.23 kg
Wi-Fi standards	Wi-Fi 6 (802.11ax)	Packaging data	
Mobile network connection *	✗	Package width	69 mm
Antenna type	2x2	Package depth	598 mm
WLAN controller model	Intel Wi-Fi 6 AX201	Package height	345 mm
WLAN controller manufacturer	Intel	Package weight	4.7 kg
Ethernet LAN	✓		



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