



HP Spectre 13 -af009tu Intel® Core™ i5 i5-8250U Laptop 33,8 cm (13.3") Touchscreen Full HD 8 GB LPDDR3-SDRAM 360 GB SSD Windows 10 Pro White

Brand : HP

Product family: Spectre

Product code: 2VQ45PA

Product name : 13-af009tu

Intel Core i5-8250U (6M Cache, up to 3.40 GHz), 8GB LPDDR3-SDRAM, 360GB SSD, 13.3" (1920 x 1080), Intel UHD Graphics 620, Bluetooth, Wi-Fi, Windows 10 Pro

HP Spectre 13 -af009tu Intel® Core™ i5 i5-8250U Laptop 33,8 cm (13.3") Touchscreen Full HD 8 GB LPDDR3-SDRAM 360 GB SSD Windows 10 Pro White:

Thin. Powerful. Built for concrete jungles.

Experience what the laptop was always meant to be. By bringing powerful, all-day performance and a stunning FHD touchscreen to a seductively thin and exceptionally crafted metal and carbon fiber design, the Spectre laptop is almost too good to be true.

HP Spectre 13 -af009tu. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-8250U, Processor frequency: 1,6 GHz. Display diagonal: 33,8 cm (13.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Touchscreen. Internal memory: 8 GB, Internal memory type: LPDDR3-SDRAM. Total storage capacity: 360 GB, Storage media: SSD. Operating system installed: Windows 10 Pro. Product colour: White



Design		Software	
Product type *	Laptop	Operating system architecture	64-bit
Product colour *	White	Pre-installed software	Netflix
Form factor *	Clamshell	Operating system installed *	Windows 10 Pro
Country of origin	China	Bundled software	McAfee LiveSafe
Display		Processor special features	
Display diagonal *	33,8 cm (13.3")	Intel® My WiFi Technology (Intel® MWT)	✓
Display resolution *	1920 x 1080 pixels	Intel® Smart Response Technology	✓
Touchscreen *	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
HD type	Full HD	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Touch technology	Multi-touch	Intel® Turbo Boost Technology	2.0
Panel type	IPS	Enhanced Intel SpeedStep Technology	✓
LED backlight	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Native aspect ratio	16:9	Intel Clear Video Technology	✓
Dual-screen	✗	Intel® InTru™ 3D Technology	✓
Processor		Intel® Quick Sync Video Technology	✓
Processor manufacturer *	Intel	Intel Flex Memory Access	✓
Processor family *	Intel® Core™ i5	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	8th gen Intel® Core™ i5	Intel Trusted Execution Technology	✗
Processor model *	i5-8250U	Intel Enhanced Halt State	✓
Processor cores	4	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	8	Intel® Secure Key	✓
Processor boost frequency	3,4 GHz	Intel TSX-NI	✗
Processor frequency *	1,6 GHz	Intel Stable Image Platform Program (SIPP)	✗
System bus rate	4 GT/s	Intel® OS Guard	✓
Processor cache	6 MB	Intel Software Guard Extensions (Intel SGX)	✓
Processor cache type	Smart Cache		
Processor socket	BGA 1356		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Kaby Lake R		
Bus type	OPI		
Stepping	Y0		

Processor		Processor special features	
Thermal Design Power (TDP)	15 W	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Configurable TDP-up frequency	1,8 GHz	Intel 64	✓
Configurable TDP-up	25 W	Execute Disable Bit	✓
Configurable TDP-down	10 W	Idle States	✓
Configurable TDP-down frequency	0,8 GHz	Thermal Monitoring Technologies	✓
Tjunction	100 °C	Processor package size	42 x 24 mm
Maximum number of PCI Express lanes	12	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
PCI Express slots version	3.0	Processor code	SR3LA
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1	CPU configuration (max)	1
ECC supported by processor	✗	Embedded options available	✗
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Internal memory *	8 GB	Intel Identity Protection Technology version	1,00
Internal memory type	LPDDR3-SDRAM	Intel Smart Response Technology version	1,00
Memory clock speed	2133 MHz	Intel Stable Image Platform Program (SIPP) version	0,00
Memory form factor	On-board	Intel Secure Key Technology version	1,00
Maximum internal memory *	8 GB	Intel TSX-NI version	0,00
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	360 GB	Processor ARK ID	124967
Storage media *	SSD	Conflict-Free processor	✓
Total SSDs capacity	360 GB	Brand-specific features	
Number of SSDs installed	1	HP JumpStart	✓
Solid-state drive capacity	360 GB	HP Sure Connect	✓
Optical drive type *	✗	HP Cool Control	✓
Graphics		HP Audio Boost	✓
Discrete graphics card model *	Not available	HP Audio Switch	✓
On-board graphics card *	✓	HP ePrint	✓
Discrete graphics card *	✗	HP Recovery Manager	✓
On-board graphics card family	Intel® UHD Graphics	HP Support Assistant	✓
On-board graphics card model *	Intel® UHD Graphics 620	HP Documentation	✓
On-board graphics card base frequency	300 MHz	HP Imagepad	✓
On-board graphics card dynamic frequency (max)	1100 MHz	HP front camera	HP Wide Vision HD IR
Maximum on-board graphics card memory	32 GB	Battery	
On-board graphics card DirectX version	12.0	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card OpenGL version	4.4	Number of battery cells	4
On-board graphics card ID	0x5917	Battery capacity *	43,7 Wh
Audio		Power	
Number of built-in speakers	2	AC adapter power	65 W
Speakers manufacturer	Bang & Olufsen	Security	
Camera		Trusted Platform Module (TPM)	✓
Front camera	✓	Sustainability	
Network		Sustainability certificates	EPEAT Silver, ENERGY STAR
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	308,2 mm
Ethernet LAN	✗	Depth	224,2 mm
Bluetooth	✓	Height	10,4 mm
Bluetooth version	4.2	Weight *	1,11 kg
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1		
Thunderbolt 3 ports quantity	2		
Combo headphone/mic port	✓		

Keyboard

Pointing device	Touchpad
Numeric keypad *	✗

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