



HP Intel Core i5-6500 processor 3.2 GHz 6 MB Smart Cache

Brand : HP

Product code: 834934-001

Product name : Intel Core i5-6500

Intel Core i5-6500, 6M Cache, 3.2 GHz, 8 GT/s DMI3

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HP Intel Core i5-6500. Processor family: Intel® Core™ i5, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR3L-SDRAM, DDR4-SDRAM. On-board graphics card model: Intel® HD Graphics 530, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: DVI, DisplayPort, Embedded DisplayPort (eDP), HDMI. Market segment: Desktop, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Compatibility: EliteDesk 800 G1

Processor		Features	
Processor generation	6th gen Intel® Core™ i5	Execute Disable Bit	✓
Processor model *	i5-6500	Idle States	✓
Processor base frequency *	3.2 GHz	Thermal Monitoring Technologies	✓
Processor family *	Intel® Core™ i5	Market segment	Desktop
Processor cores *	4	Maximum number of PCI Express lanes	16
Processor socket *	LGA 1151 (Socket H4)	PCI Express slots version	3.0
Component for	PC	PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor lithography *	14 nm	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor series	Intel Core i5-6500 Desktop series	Scalability	1S
Processor threads	4	CPU configuration (max)	1
System bus rate	8 GT/s	Embedded options available	✓
Processor operating modes *	64-bit	Graphics & IMC lithography	14 nm
Processor boost frequency	3.6 GHz	Thermal solution specification	PCG 2015C
Processor cache	6 MB	Processor special features	
Processor cache type	Smart Cache	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Thermal Design Power (TDP)	65 W	Intel® Identity Protection Technology (Intel® IPT)	✓
Stepping	R0	Intel® Turbo Boost Technology	2.0
Bus type	DMI3	Intel® Quick Sync Video Technology	✓
Memory bandwidth supported by processor (max)	34.1 GB/s	Intel® InTru™ 3D Technology	✓
Processor codename	Skylake	Intel® Wireless Display (Intel® WiDi)	✓
Memory		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum internal memory supported by processor	64 GB	Intel® Insider™	✓
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz	Enhanced Intel SpeedStep Technology	✓
Memory voltage supported by processor	1.35 V	Intel Trusted Execution Technology	✓
Memory channels *	Dual-channel	Intel VT-x with Extended Page Tables (EPT)	✓
ECC	✗	Intel® Secure Key	✓
Graphics		Intel TSX-NI	✓
On-board graphics card *	✓	Intel Stable Image Platform Program (SIPP)	✓
On-board graphics card model *	Intel® HD Graphics 530	Intel® OS Guard	✓
Maximum on-board graphics card memory	64 GB		
On-board graphics card outputs supported	DVI, DisplayPort, Embedded DisplayPort (eDP), HDMI		

Graphics		Processor special features	
On-board graphics card base frequency	350 MHz	Intel® Small Business Advantage (Intel® SBA)	✓
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Clear Video Technology	✓
Number of displays supported (on-board graphics)	3	Intel Software Guard Extensions (Intel SGX)	✓
On-board graphics card DirectX version	12.0	Intel 64	✓
On-board graphics card OpenGL version	4.4	Intel Virtualization Technology (VT-x)	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Conflict-Free processor	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Intel® vPro™ Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Tcase	71 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Other features	
		Compatibility	EliteDesk 800 G1



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