HP Intel Core i5-6600 processor 3.3 GHz 6 MB Smart Cache

Brand : HP

Product code: 834935-001

Product name : Intel Core i5-6600

Intel Core i5-6600, 6M Cache, 3.3 GHz, 8 GT/s DMI3

HP Intel Core i5-6600 processor 3.3 GHz 6 MB Smart Cache:

Options, accessories, services and support for all your HP and Compaq products.
HP Intel Core i5-6600. 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: Z240

Processor	
Processor generation	6th gen Intel® Core™ i5
Processor model *	i5-6600
Processor base frequency *	3.3 GHz
Processor family *	Intel® Core™ i5
Processor cores *	4
Processor socket *	LGA 1151 (Socket H4)
Component for	PC
Processor lithography *	14 nm
Processor series	Intel Core i5-6600 Desktop Series
Processor threads	4
System bus rate	8 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.9 GHz
Processor cache	6 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	65 W
Stepping	R0
Bus type	DMI3
Memory bandwidth supported by processor (max)	34.1 GB/s
Processor codename	Skylake

Memory	
Maximum internal memory supported by processor	64 GB
Memory types supported by processor	DDR3L-SDRAM, DDR4-SDRAM
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz
Memory voltage supported by processor	1.35 V
Memory channels *	Dual-channel
ECC	✗

Graphics	
On-board graphics card *	✓
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

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Desktop
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8+2x4, 2x8
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Scalability	1S
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	14 nm
Thermal solution specification	PCG 2015C

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Turbo Boost Technology	2.0
Intel® Quick Sync Video Technology	✓
Intel® InTru™ 3D Technology	✓
Intel® Wireless Display (Intel® WiDi)	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel® Insider™	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✓
Intel Stable Image Platform Program (SIPP)	✓
Intel® OS Guard	✓

Graphics	
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz

Processor special features	
Intel® Small Business Advantage (Intel® SBA)	✔
Intel Clear Video Technology	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Conflict-Free processor	✔
Intel® vPro™ Platform Eligibility	✔

Operational conditions	
Tcase	71 °C

Other features	
Compatibility	Z240

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