

Intel Core i5-11600K processor 3.9 GHz 12 MB Smart Cache Box

Brand : Intel

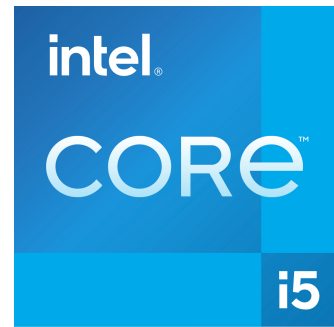
Product family: Core

Product code:
BX8070811600K

Product name : i5-11600K

Intel Core i5-11600K Processor (12MB Cache, up to 4.9 GHz)

Intel Core i5-11600K. Processor family: Intel® Core™ i5, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel UHD Graphics 750, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express configurations: 1x16+1x4, 2x8+1x4, 1x8+3x4. Intel® Turbo Boost Technology 2.0 frequency: 4.9 GHz



Processor		Features	
Processor manufacturer *	Intel	Maximum number of PCI Express lanes	20
Processor generation	11th gen Intel® Core™ i5	PCI Express slots version	4.0
Processor model *	i5-11600K	PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4
Processor base frequency *	3.9 GHz	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Processor family *	Intel® Core™ i5	Scalability	1S
Processor cores *	6	CPU configuration (max)	1
Processor socket *	LGA 1200 (Socket H5)	Embedded options available	✗
Component for	PC	Harmonized System (HS) code	85423119
Processor lithography *	14 nm	Export Control Classification Number (ECCN)	5A992CN3
Processor threads	12	Commodity Classification Automated Tracking System (CCATS)	G167599
System bus rate	8 GT/s		
Processor operating modes *	64-bit		
Processor boost frequency	4.9 GHz		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	125 W		
Box *	✓		
Configurable TDP-down frequency	3.6 GHz		
Configurable TDP-down	95 W		
Memory bandwidth supported by processor (max)	50 GB/s		
Processor ARK ID	212275		
Memory		Processor special features	
Maximum internal memory supported by processor	128 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory clock speeds supported by processor	3200 MHz	Intel® Turbo Boost Technology	2.0
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
ECC	✗	Intel® InTru™ 3D Technology	✓
Memory bandwidth (max)	50 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
		Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel Trusted Execution Technology	✓
		Intel® Thermal Velocity Boost	✗
		Intel® Turbo Boost Technology 2.0 frequency	4.9 GHz
		Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel Stable Image Platform Program (SIPP)	✓
		Intel® OS Guard	✓
		Intel Clear Video Technology	✓
		Intel Software Guard Extensions (Intel SGX)	✗
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
On-board graphics card model *	Intel UHD Graphics 750		
Maximum on-board graphics card memory	64 GB		
On-board graphics card base frequency	350 MHz		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1300 MHz	Intel 64	✓
Number of displays supported (on-board graphics)	3	Intel Virtualization Technology (VT-x)	✓
On-board graphics card 4K support	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card OpenGL version	4.5	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card maximum resolution (DisplayPort)	5120 x 3200 pixels	Intel® Optane™ Memory Ready	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Boot Guard	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Intel® vPro™ Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Tjunction	100 °C
On-board graphics card ID	0x4C8A	Technical details	
Discrete graphics card model *	Not available	Target market	Gaming
Number of execution units	32	Launch date	Q1'21
Features		Status	Launched
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Idle States	✓	Packaging data	
Thermal Monitoring Technologies	✓	Package type	Retail box
Market segment	Desktop	Weight & dimensions	
Use conditions	PC/Client/Tablet	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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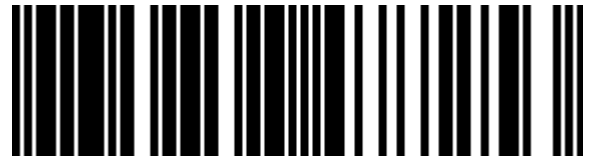
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