

## Intel Core i5-10600K processor 4.1 GHz 12 MB Smart Cache Box

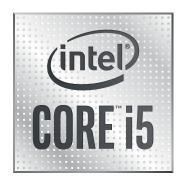
Brand : Intel Product family: Core Product code:

BX8070110600K

Product name: i5-10600K

Intel Core i5-10600K Processor (12MB Cache, up to 4.8 GHz)

Intel Core i5-10600K. 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 630, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4.8 GHz







Processor generation 10th general (Processor generation intell (Processor generation intell (Processor generation intell (Processor indell intell intell (Processor indell intell intell (Processor indell intell intell intell (Processor indell intell intel	Processor		Features	
Processor model   i5-10600K   Scalability   15 Processor hase frequency   4.1 GHz   CPU configuration (max)   1 Processor family   Intel® Core " i5   Embedded options available   X Processor socket   LGA 1200 (Socket H5)   PCI Express CEM revision   3.0 Component for   PC   Harmonized System (H5) code   845423119 Processor lithography   14 nm   Export Control Classification   Number (ECCN)   Number (ECCN)   Sayage Commonity Classification   SA992C   Number (ECCN)   Number (ECCN)   Socket H5	Processor manufacturer *	Intel	PCI Express configurations	1x16, 2x8, 1x8+2x4
Processor base frequency * 4.1 GHz Processor family * Intel® Core** i5 Embedded options available X Processor cores * 6 Thermal solution specification PGG 2015D Processor socket * LGA 1200 (Socket H5) PCI Express CEM revision 3.0 PCI Express CEM re	Processor generation	10th gen Intel® Core™ i5	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor family * Intel® Core ** 15	Processor model *	i5-10600K	Scalability	15
Processor cores*   6   Thermal solution specification   PCG 2015D   Processor socket*   LGA 1200 (Socket H5)   PCI Express CEM revision   3.0   Component for   PC   Harmonized System (H5) code   85423119   Processor lithography*   14 nm   Export Control Classification   5A992C   Processor threads   12   Number (ECCN)   SA992C   Processor operating modes*   64-bit   CCATS)   Processor operating modes*   64-bit   CCATS    Processor cache type   Smart Cache   Intel® Hyper Threading Technology   Thermal Design Power (TDP)   125 W   Intel® (Hentily Protection   Technology (Intel® IPT)   V   Configurable TDP-down frequency   3.8 GHz   Intel® Quick Sync Video Technology   V   Configurable TDP-down   95 W   Intel® Quick Sync Video Technology   V   Generation   10th Generation   Intel® Cuick Sync Video Technology   V   Memory bandwidth supported by processor (max)   Intel® Cuick Sync Video Technology   V   Processor (achame   Comet Lake   AES-NI)   Intel® Execution Technology   Maximum internal memory   128 GB   Intel® Turbo Boost Technology   V   Maximum internal memory   128 GB   Intel® Turbo Boost Technology   V   Maximum internal memory   DDR4-SDRAM   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology   V   Memory (base supported by processor   128 GB   Intel® Turbo Boost Technology	Processor base frequency *	4.1 GHz	CPU configuration (max)	1
Processor socket * LGA 1200 (Socket H5) PCI Express CEM revision 3.0 Component for PC Processor lithography * 14 nm Processor lithography * 14 nm Processor lithography * 12 mm Processor lithography * 14 nm Processor threads 12 System bus rate 8 8 GT/s Commodity Classification Number (ECCN) Number (ECCN) Number (ECCN) Number (ECCN) Processor operating modes * 64-bit (CCATS) Processor operating modes * 64-bit (CCATS) Processor cache 12 MB Processor cache 12 MB Processor cache 12 S Mart Cache Processor cache 12 S W Processor special features Processor cache 12 S W Intel® HPper Threading Technology (Intel® HT Technology) Intel® Intel® HT Technology (Intel® HT) Processor special features Intel® HT Technology (Intel® HT) Intel® Intel® HT Technology (Intel® Intel® Int	Processor family *	Intel® Core™ i5	Embedded options available	×
Component for PC Harmonized System (HS) code 85423119  Processor lithrography 1 14 nm Export Control Classification Number (ECCN) 5A992C  Processor threads 12  System bus rate 8 67/5 Commodity Classification Automated Tracking System (677159)  Processor operating modes 64-bit (CCATS)  Processor dache 12 MB Processor cache 12 MB  Processor cache 12 MB  Processor cache type Smart Cache Intel® Hyper Threading Technology (Intel® HT Technology)  Thermal Design Power (TDP) 125 W Intel® Identity Protection 7  Thermal Design Power (TDP) 25 W Intel® Intru® Trat Boost Technology (Intel® ITT Technology)  Configurable TDP-down frequency 95 W Intel® Linta® Turb Boost Technology 2.0  Configurable TDP-down 95 W Intel® Linta® Turb Boost Technology 7  Generation 10th Generation Intel® Clar Video HD Technology 7  Generation 10th Generation Intel® Clar Video HD Technology 7  Processor Codename Comet Lake AES-NI) Intel® AES New Instructions (Intel® Processor Codename Processor Codename Processor Codename Processor Codename Processor Processor Codename Processor Processor Codename Processor Processor Codename Processor	Processor cores *	6	Thermal solution specification	PCG 2015D
Processor lithography* 14 nm Export Control Classification Number (ECCN)	Processor socket *	LGA 1200 (Socket H5)	PCI Express CEM revision	3.0
Processor threads 12 Number (ECCN) SA992C System bus rate 8 8 GT/s Processor operating modes 64-bit (CCATS) Processor operating modes 12 MB Processor boost frequency 4.8 GHz Processor cache 12 MB Processor cache type 5mart Cache (Intel® HP) Threating Technology (Intel® HT) Processor cache type 125 W (Intel® HT) Threating Technology (Intel® HT)  Box * Intel® HP) Threating Technology (Intel® HP)  Configurable TDP-down frequency 3.8 GHz Intel® (Intel® (Intel® HT) Throb Boost Technology 2.0  Generation 95 W Intel® (Intel® (I	Component for	PC	Harmonized System (HS) code	85423119
Processor threads System bus rate Processor operating modes 64-bit CCATS) Processor operating modes 64-bit Processor operating modes 12 MB Processor cache Processor cache 12 MB Processor cache 12 MB Processor cache type Thermail Design Power (TDP) 125 W Box Configurable TDP-down frequency Cooler included X Configurable TDP-down Generation Memory bandwidth supported by processor (max) Processor (max) Processor (max) Processor (max) Processor AK ID  Memory  Memory  Memory  Memory types supported by processor Memory types supported by processor Memory types supported by processor Memory clanck speeds supported by processor Memory Channels Memory Cha	Processor lithography *	14 nm	•	5A992C
Processor operating modes * 64-bit (CCATS)  Processor operating modes * 64-bit (CCATS)  Processor poperating modes * 64-bit (CCATS)  Processor operating modes * 12 MB  Processor cache 12 MB  Processor cache 12 MB  Processor cache 12 MB  Processor cache 12 MB  Processor special features  Processor cache 12 MB  Intel® Hyper Threading Technology (Intel® HT Technology)  Intel® Identity Protection 7 Cenhology (Intel® HT Technology)  Intel® Identity Protection 7 Cenhology (Intel® IPT)  Configurable TDP-down frequency 3.8 GHz Intel® Turbo Boost Technology 2.0  Cooler included * X Intel® Turbo Boost Technology 2.0  Configurable TDP-down 95 W Intel® Turbo Boost Technology 4  Configurable TDP-down 95 W Intel® Intru™ 3D Technology 4  Generation 10th Generation Intel® Clear Video HD Technology 4  Generation 20th Generation Intel® CLEAR VIDEO HD Technology 4  Memory bandwidth supported by processor (max)  Processor codename Comet Lake AES-NI)  Processor codename Comet Lake AES-NI)  Processor ARK ID 199311 Enhanced Intel SpeedStep 7 Technology 1  Intel® Turbo Boost Technology 4  AES-NI)  Memory  Maximum internal memory 128 GB Intel® Thermal Velocity Boost 1  Intel® Thermal Velocity Boost 1  Intel® Turbo Boost Technology 2.0  Grequency 1  Intel® Thermal Velocity Boost 1  Intel® Transactional Synchronization Extensions York with Extended Page 7  Tables (EFT) 4.8 GHz  Graphics	Processor threads	12	, ,	
Processor operating modes * 64-bit (CCATS)  Processor post frequency 4.8 GHz  Processor cache 12 MB  Processor cache type Smart Cache (Intel® Hyper Threading Technology (Intel® HT Technology) (Intel® Intel® Count of Technology) (Intel® Intro Intel® Count of Technology) (Intel® Count of Technology) (In	System bus rate	8 GT/s	,	G077159
Processor cache Processor cache type Processor cache type Smart Cache Processor cache type Smart Cache Intel® Hyper Threading Technology Intermal Design Power (TDP) Sox  Configurable TDP-down frequency 3.8 GHz Intel® Quick Sync Video Technology Cooler included  X Intel® Quick Sync Video Technology Intel® Intru™ 3D Technology Cooler included Sox  Configurable TDP-down 95 W Intel® Quick Sync Video Technology  Generation Memory bandwidth supported by processor (max) Processor codename Comet Lake AES-NI) Processor Codename Comet Lake AES-NI) Processor ARK ID 199311 Enhanced Intel SpeedStep Technology Intel Trusted Execution Technology Maximum internal memory supported by processor Memory types supported by processor Memory Lock speeds supported by processor Memory clock speeds supported by pr	Processor operating modes *	64-bit		3077133
Processor cache type Thermal Design Power (TDP) Box*  Configurable TDP-down frequency Cooler included*  X  Intel® Hyper Threading Technology (Intel® HT Technology) Intel® Identity Protection Technology (Intel® IPT)  Configurable TDP-down frequency Cooler included*  X  Intel® Quick Sync Video Technology Intel® InTru™ 3D Technology  Configurable TDP-down Generation  Intel® Lolar Video HD Technology Intel® Lolar Video HD Technology  Memory bandwidth supported by processor (max) Processor cdename Processor ARK ID  Processor ARK ID  Intel® AES New Instructions (Intel® AES-NI) Intel® AES New Instructions (Intel® AES-NI) Intel® Tursted Execution Technology Intel Tursted Execution Technology Intel® Trenand Velocity Boost Intel® Tursted Execution Technology  Memory Intel® Tursted Execution Technology Intel® Transactional Memory types supported by processor Memory clock speeds Supported by Dual-channel  ECC  Graphics  On-board graphics card *  V  Intel® UTD Graphics 630 Intel® UTD Graphics 630 Intel® OS Guard Extensions (Intel® SOX) Intel® SOX Intel® H	Processor boost frequency	4.8 GHz	Processor special features	
Thermal Design Power (TDP) Box *			•	
Intel® Identity Protection   Technology (Intel® IPT)   Technology	• •			✓
Configurable TDP-down frequency Cooler included * Configurable TDP-down 95 W Intel® Quick Sync Video Technology  Configurable TDP-down 95 W Intel® Quick Sync Video Technology  Configurable TDP-down Generation 10th Generation Intel® Clear Video HD Technology  Memory bandwidth supported by processor (max) Processor codename Comet Lake Processor ARK ID Processor ARK ID Processor ARK ID Processor ARK ID  Maximum internal memory supported by processor Memory types supported by processor Memory types supported by processor Memory clock speeds supported by processor Memory clock speeds supported by processor Memory channels * Dual-channel ECC  X  Intel® Turbo Boost Technology Intel® Transactional Synchronization Extensions Intel VT-x with Extended Page Tables (EPT)  Intel® Secure Key  Intel® Secure Key  Intel® Secure Key  Intel® Secure Key  Intel® OS Guard  Intel® OS Guard  Intel Clear Video Technology  /*  Intel OS Guard Intel OS Guard  Intel OS Guard  Intel Statusions  /*  Intel Software Guard Extensions /*  Intel SGX)	· , ,			4
Cooler included * X Intel® Quick Sync Video Technology V Configurable TDP-down 95 W Intel® Unitel® Uni		•	Technology (Intel® IPT)	4
Configurable TDP-down Generation 10th Generation 10th Generation 11thel® InTru ™ 3D Technology Memory bandwidth supported by processor (max) Processor codename Processor ARK ID 199311 Enhanced Intel® EspeedStep Technology Intel® Trusted Execution Technology Maximum internal memory supported by processor Memory types supported by processor Memory types supported by processor Memory clannels * Dual-channel ECC  Graphics On-board graphics card * On-board graphics card Maximum on-board graphics card Maximum on-board graphics card Maximum on-board graphics card Maximum on-board graphics card Memory clannels  Intel® UtRD Graphics Intel® Trusted Execution Technology Intel® Trusto Boost Technology 2.0 4.8 GHz Frequency Intel® Transactional Synchronization Extensions Intel® Transactional Synchronization Extensions Intel® Secure Key Intel® Secure Key Intel® Secure Key Intel® OS Guard Intel® OS Guard Intel Clear Video Technology V Intel Software Guard Extensions V Intel® S			Intel® Turbo Boost Technology	2.0
Generation 10th Generation Intel® Clear Video HD Technology Memory bandwidth supported by processor (max) 41.6 GB/s Intel® AES New Instructions (Intel® AES-NI) Processor Codename Comet Lake AES-NI) Processor ARK ID 199311 Enhanced Intel SpeedStep Technology Memory Intel Trusted Execution Technology Maximum internal memory supported by processor Memory types supported by processor Memory clock speeds supported by processor  Intel® Transactional Synchronization Extensions  Intel VT-x with Extended Page Tables (EPT)  Intel® Secure Key  Intel® Secure Key  Intel® OS Guard  Intel® OS Guard  Intel® OS Guard  Intel® OS Guard  Intel® Clear Video Technology  Intel Software Guard Extensions  (Intel Software Guard Extensions)			Intel® Quick Sync Video Technology	✓
Memory bandwidth supported by processor (max)  Processor codename Processor ARK ID  Memory  Maximum internal memory supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Intel® Transactional  Synchronization Extensions  Intel WT-x with Extended Page  Tables (EPT)  Intel® Secure Key  Intel® Secure Key  Intel® Stable Image Platform Program (SIPP)  Intel® OS Guard  Intel® OS Guard  Intel® Clear Video Technology  Intel Software Guard Extensions  (Intel Soft)			Intel® InTru™ 3D Technology	✓
processor (max)  Processor codename Processor Codename Processor ARK ID  199311  Enhanced Intel SpeedStep Technology Intel Trusted Execution Technology Intel® Turbe Boost Technology 2.0  Memory types supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Intel® Transactional  Synchronization Extensions  Intel WT-x with Extended Page Tables (EPT)  Intel® Secure Key  Intel® Secure Key  Intel® Secure Key  Intel® OS Guard  Intel® OS Guard  Intel Clear Video Technology  Intel Software Guard Extensions  (Intel SGX)		10th Generation		✓
Processor codename Comet Lake AES-NI)  Processor ARK ID 199311 Enhanced Intel SpeedStep Technology  Memory Intel® Trusted Execution Technology Intel® Turbo Boost Technology 2.0  Memory types supported by processor Intel® Turbo Boost Technology 2.0  Memory clock speeds supported by processor Memory clock speeds supported by processor Intel® Transactional Synchronization Extensions Processor Intel® Transactional Synchronization Extensions Intel® Transactional Synchronization Extensions Intel® UT-x with Extended Page Tables (EPT)  ECC X Intel® Secure Key Intel® OS Guard Intel® OS Guard Intel® OS Guard Intel® Software Guard Extensions (Intel Soft)		41.6 GB/s	,	
Processor ARK ID  Memory  Maximum internal memory supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Memory clack speeds supported by processor  Memory clock speeds supported by processor  Memory clock speeds supported by processor  Memory clack speeds supported by processor  Memory clack speeds supported by processor  Memory clock speeds supported by processor  Memory types supported by processor  Me	•	Comet Lake		✓
Memory  Maximum internal memory supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Memory channels *  Dual-channel  ECC  Intel® Transactional Synchronization Extensions  Intel VT-x with Extended Page Tables (EPT)  ECC  Intel® Secure Key  Intel Stable Image Platform Program (SIPP)  Intel® OS Guard  Intel Clear Video Technology  Intel Software Guard Extensions  Maximum on-board graphics card			·	4
Maximum internal memory supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Memory channels *  Dual-channel  ECC  X  Intel® Trurbo Boost Technology 2.0  Intel® Transactional  Synchronization Extensions  Intel VT-x with Extended Page  Tables (EPT)  ECC  Intel® Secure Key  Intel Stable Image Platform Program  (SIPP)  Intel® OS Guard  Intel® OS Guard  Intel Clear Video Technology  Intel Software Guard Extensions  (Intel Software Guard Extensions  (Intel Soft)	Momony		Technology	4
supported by processor  Memory types supported by processor  Memory clock speeds supported by processor  Memory clock speeds supported by processor  Memory clock speeds supported by processor  Memory channels *  Dual-channel  ECC  Intel® Transactional  Synchronization Extensions  Intel VT-x with Extended Page Tables (EPT)  ECC  Intel® Secure Key  Intel® Secure Key  Intel® Secure Key  Intel® OS Guard  Intel® OS Guard  Intel® OS Guard  Intel® OS Guard Extensions  Intel® Software Guard Extensions  Intel® Software Guard Extensions  (Intel Software Guard Extensions  (Intel Soft)			Intel Trusted Execution Technology	✓
Memory types supported by processor  Memory clock speeds supported by processor  Memory clock speeds supported by processor  Memory channels *  ECC  Dual-channel  ECC  Intel ® Transactional Synchronization Extensions  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 Software Guard Extensions (Intel Software Guard Extensions (Intel Soft)	,	128 GB	•	×
Memory clock speeds supported by processor  Memory channels *  Dual-channel  ECC  Intel ® Transactional Synchronization Extensions  Intel VT-x with Extended Page Tables (EPT)  Intel ® Secure Key  Intel Stable Image Platform Program (SIPP)  On-board graphics card *  On-board graphics card *  On-board graphics card model *  Maximum on-board graphics card memory  Intel ® OS Guard Intel © OS Guard Intel Clear Video Technology Intel Software Guard Extensions (Intel SGX)	Memory types supported by	DDR4-SDRAM	frequency	4.8 GHz
Memory channels * Dual-channel Tables (EPT)  ECC	Memory clock speeds supported by	2666 MHz		×
Graphics  On-board graphics card *  Discrete graphics card *  On-board graphics card model *  Maximum on-board graphics card memory  Intel® UHD Graphics 630  Maximum on-board graphics card memory  Intel® OS Guard  Intel® OS Guard  Intel® Clear Video Technology  Intel Software Guard Extensions  (Intel SGX)	'	Dual-channel	3	✓
On-board graphics card * / Intel® OS Guard  Discrete graphics card model * Intel® UHD Graphics 630  Maximum on-board graphics card memory  Maximum on-board graphics card of GB  (SIPP)  Intel® OS Guard  Intel Clear Video Technology  Intel Software Guard Extensions  (Intel SGX)	ECC	×	Intel® Secure Key	✓
Discrete graphics card * X Intel® OS Guard  On-board graphics card model * Intel® UHD Graphics 630  Maximum on-board graphics card memory  64 GB  Intel® OS Guard  Intel® OS Guard  Intel Clear Video Technology Intel Software Guard Extensions (Intel SGX)	•		5	✓
On-board graphics card model * Intel® UHD Graphics 630  Maximum on-board graphics card memory  64 GB  Intel © UHD Graphics 630  Intel Software Guard Extensions (Intel SGX)	<b>5</b> ,		Intel® OS Guard	✓
Maximum on-board graphics card 64 GB (Intel SGX)			Intel Clear Video Technology	✓
memory	• •	·		<b>√</b>
	memory	04 00	,	✓

Graphics		Processor special features	
On-board graphics card base frequency	350 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of displays supported (on- board graphics)	3	Intel Turbo Boost Max Technology 3.0	×
On-board graphics card 4K support	<b>√</b>	Intel® Optane™ Memory Ready	✓
On-board graphics card DirectX version	12.0	Intel® Boot Guard Intel® vPro™ Platform Eligibility	<b>√</b>
On-board graphics card OpenGL version	4.5	Operational conditions	
On-board graphics card maximum	4096 x 2304 pixels	Tjunction	100 °C
resolution (DisplayPort) On-board graphics card maximum		Technical details	
resolution (eDP - Integrated Flat	4096 x 2304 pixels	Target market	Gaming
Panel)		Launch date	Q2'20
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Maximum resolution & refresh rate (DisplayPort)	4096 x 2304@60Hz
On-board graphics card refresh rate at maximum resolution		Product type	Processor
(DisplayPort)	60 Hz	Status	Launched
On-board graphics card refresh rate		Maximum memory	128 GB
at maximum resolution (eDP -	60 Hz	Supported memory types	DDR4-SDRAM
Integrated Flat Panel)		Bus speed	8 GT/s
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Maximum graphics card memory	64 GB
On-board graphics card ID	0x9BC5	Processor ID	0x9BC5
Discrete graphics card model *	Not available	Packaging data	
Features		Package type	Retail box
Execute Disable Bit	1	Weight & dimensions	
Idle States	1	Processor package size	37.5 x 37.5 mm
Thermal Monitoring Technologies	1	Other features	
Market segment	Desktop		128 GB
Maximum number of PCI Express lanes	16	Maximum internal memory	120 GB
PCI Express slots version	3.0		

















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