

## 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 * Processor generation	Intel 11th gen Intel® Core™ i5	Maximum number of PCI Express lanes	20
Processor model *	i5-11600K	PCI Express slots version	4.0
Processor base frequency *	3.9 GHz	PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4
Processor family *	Intel® Core™ i5	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Processor cores *	6	Scalability	15
Processor socket *	LGA 1200 (Socket H5)	CPU configuration (max)	1
Component for	PC	Embedded options available	×
Processor lithography *	14 nm	Harmonized System (HS) code	85423119
Processor threads	12	Export Control Classification Number (ECCN)	5A992CN3
System bus rate Processor operating modes * Processor boost frequency	8 GT/s 64-bit 4.9 GHz	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor cache	12 MB	Processor special features	
Processor cache type Thermal Design Power (TDP)	Smart Cache 125 W	Intel® Hyper Threading Technology (Intel® HT Technology)	1
Box * Configurable TDP-down frequency	<b>√</b> 3.6 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
Configurable TDP-down	95 W	Intel® Turbo Boost Technology	2.0
Memory bandwidth supported by	50 GB/s	Intel® Quick Sync Video Technology	✓
processor (max)	•	Intel® InTru™ 3D Technology	✓
Processor ARK ID  Memory	212275	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Maximum internal memory	128 GB	Intel® AES New Instructions (Intel® AES-NI)	✓
supported by processor  Memory types supported by	DDR4-SDRAM	Enhanced Intel SpeedStep Technology	✓
processor		Intel Trusted Execution Technology	✓
Memory clock speeds supported by processor	3200 MHz	Intel® Thermal Velocity Boost	×
Memory channels *	Dual-channel	Intel® Turbo Boost Technology 2.0 frequency	4.9 GHz
Memory bandwidth (max)	50 GB/s	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	1
Graphics		Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card *	<b>√</b>	Intel® Secure Key	✓
Discrete graphics card * On-board graphics card model *	Intel UHD Graphics 750	Intel Stable Image Platform Program (SIPP)	1
Maximum on-board graphics card	64 GB	Intel® OS Guard	✓
memory		Intel Clear Video Technology	✓
On-board graphics card base frequency	350 MHz	Intel Software Guard Extensions (Intel SGX)	×

On-board graphics card dynamic frequency (max) Number of displays supported (on-board graphics) On-board graphics) On-board graphics card Ks support On-board graphics card Ms support On-board graphics card Maximum resolution (DisplayPort) On-board graphics card maximum resolution (DisplayPort) On-board graphics card maximum resolution (DisplayPort) On-board graphics card maximum resolution (HDMI) On-board graphics card fresh rate at maximum resolution (HDMI) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel) On-board graphics card refresh rate at maximum resolution (PDP - Integra	Graphics		Processor special features	
Number of displays supported (onband graphics)  On-board graphics card 4K support  On-board graphics card OpenGL version  On-board graphics card maximum resolution (DisplayPort)  On-board graphics card maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (PDP - Integrated Flat Panel)  On-board grap		1300 MHz		✓
On-board graphics card 4K support       ✓       Directed I/O (VT-d)       ✓         On-board graphics card OpenGL version       4.5       Intel Turbo Boost Max Technology 3.0       X         On-board graphics card maximum resolution (DisplayPort)       5120 x 3200 pixels       Intel® Optane™ Memory Ready 1 htel® Boot Guard 1 htel® Deep Learning Boost (Intel® Deep Learning Boo	Number of displays supported (on-	3	x)	✓
version       4.5       3.0       Intel® Optane™ Memory Ready Intel® Optane™ Memory Ready Intel® Boot Guard       ✓         On-board graphics card maximum resolution (eDP - Integrated Flat Panel)       5120 x 3200 pixels       Intel® Deep Learning Boost (Intel® Deep Learning Boost (Intel® Deep Learning Boost (Intel® Deep Learning Boost)       ✓         On-board graphics card maximum resolution (HDMI)       4096 x 2160 pixels       Operational conditions       ✓         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Tipunction       100 °C         On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)       60 Hz       Target market       Gaming         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       Launch date         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       Launch date         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       DDR4-SDRAM         On-board graphics card ID       0x4C8A       Packaging data         Discrete graphics card model *       Not available       Package type       Retail box         Number of execution units       32       Package type       7.5 x 37.5 mm         Features         Execute Disable Bit Idle States       ✓	<b>3</b> 1	1	3,	✓
resolution (DisplayPort)       \$120 x 3200 pixels       Intel® Boot Guard       ✓         On-board graphics card maximum resolution (eDP - Integrated Flat Panel)       \$120 x 3200 pixels       Intel® Deep Learning Boost (Intel® Deep Learning Boost (Intel® Deep Learning Boost)       ✓         On-board graphics card maximum resolution (HDMI)       4096 x 2160 pixels       Operational conditions         On-board graphics card refresh rate at maximum resolution (DisplayPort)       60 Hz       Technical details         On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)       60 Hz       Target market       Gaming         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       Launched         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       Launched         On-board graphics card refresh rate at maximum resolution (HDMI)       0 vx4C8A       Packaging data       Launched         On-board graphics card ID       0 vx4C8A       Packaging data       Retail box         Discrete graphics card model *       Not available       Package type       Retail box         Number of execution units       32       Weight & dimensions         Execute Disable Bit       ✓       Other features       37.5 x 37.5 mm		4.5		×
resolution (eDP - Integrated Flat Panel)  On-board graphics card maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (DisplayPort)  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card model * Not available  Number of execution units  32   **Retail box**  **Weight & dimensions**  **Processor package size**  **Other features**  Other features**  **Tignet market  Gaming  Gaming  Garing  Satus  Status  Launched  Q1'21  Status  Launched  DDR4-SDRAM  DDR4-SDRAM  **DR4-SDRAM  **Other features**  **Weight & dimensions**  **Processor package size**  37.5 x 37.5 mm	3 1	5120 x 3200 pixels	' ' '	<b>4</b>
On-board graphics card maximum resolution (HDMI)       4096 x 2160 pixels       Operational conditions         On-board graphics card refresh rate at maximum resolution (DisplayPort)       60 Hz       Tijunction       100 °C         On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)       60 Hz       Target market       Gaming         On-board graphics card refresh rate at maximum resolution (HDMI)       60 Hz       Status       Launched         On-board graphics card refresh rate at maximum resolution (HDMI)       0x4C8A       Packaging data         On-board graphics card ID       0x4C8A       Packaging data         Discrete graphics card model * Not available Number of execution units       Not available Not available Number of execution units       Weight & dimensions         Features       Weight & dimensions         Execute Disable Bit Idle States       ✓       Other features	resolution (eDP - Integrated Flat	5120 x 3200 pixels		<b>√</b>
resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (DisplayPort)  On-board graphics card refresh rate at maximum resolution (DisplayPort)  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card ID  Ox4C8A  Discrete graphics card model * Not available Number of execution units  32   **Retail box**  **Weight & dimensions**  Processor package size  37.5 x 37.5 mm  Other features  Other features	,		Intel® vPro™ Platform Eligibility	✓
at maximum resolution (DisplayPort)  Technical details  On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card ID  On-board graphics card ID  On-board graphics card model *  Not available  Not available  Not available  Features  Execute Disable Bit  Idle States  On-board graphics card Model *  On-board graphics card Model *  Not available  Not available  On-board graphics card model *  Not available  On-board graphics card ID  Ox4C8A  Packaging data  Package type  Retail box  Weight & dimensions  Processor package size  37.5 x 37.5 mm  Other features		4096 x 2160 pixels	Operational conditions	
Technical detailsOn-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)60 HzTarget marketGamingOn-board graphics card refresh rate at maximum resolution (HDMI)60 HzStatusLaunchedOn-board graphics card ID0x4C8ASupported memory typesDDR4-SDRAMOn-board graphics card model *Not available Number of execution unitsPackaging dataPackage typeRetail boxWeight & dimensionsExecute Disable Bit Idle States✓Other features	at maximum resolution	60 Hz	Tjunction	100 °C
at maximum resolution (eDP - Integrated Flat Panel)  On-board graphics card refresh rate at maximum resolution (HDMI)  On-board graphics card ID  On-board graphics card ID  On-board graphics card model * Not available  Number of execution units  Execute Disable Bit  Idle States  On-board graphics card MD  Ox4C8A  Packaging data  Package type  Retail box  Weight & dimensions  Processor package size  Other features  Other features			Technical details	
On-board graphics card ID On-board graphics card ID Ox4C8A  Discrete graphics card model * Number of execution units  Execute Disable Bit Idle States  Ox4C8A  Packaging data Package type Package type  Retail box  Weight & dimensions Processor package size  Other features  Other features  Other features	at maximum resolution (eDP -		•	•
On-board graphics card ID  Discrete graphics card model * Number of execution units  Execute Disable Bit Idle States  Ox4C8A  Ox4C8A  Packaging data  Package type  Retail box  Weight & dimensions  Processor package size  Other features  Other features  DDR4-SDRAM  DDR4-SDRAM  AND SUPPLIES Supported memory types  DDR4-SDRAM  ODR4-SDRAM  Retail box  Retail box  Other features		60 Hz		
Discrete graphics card model * Not available Number of execution units 32  Features  Execute Disable Bit Idle States  Not available Package type Retail box  Weight & dimensions Processor package size 37.5 x 37.5 mm  Other features	,		Supported memory types	DDR4-SDRAM
Number of execution units  32  Weight & dimensions  Features  Execute Disable Bit  Idle States  Package type  Retail box  Weight & dimensions  Processor package size  37.5 x 37.5 mm  Other features	• .		Packaging data	
Features       Execute Disable Bit Idle States     ✓       Other features     ✓	<b>5</b> 1		Package type	Retail box
Execute Disable Bit Idle States  Processor package size 37.5 x 37.5 mm  Other features		52	Weight & dimensions	
Idle States   Other features		,	Processor package size	37.5 x 37.5 mm
iule states		4	Other features	
Thermal Maximum internal memory 120 db		4		128 GR
Market segment Desktop	· ·	Deskton	Haximan internal memory	120 05
Use conditions PC/Client/Tablet	•	'		















Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.