

## Intel Core i5-14600K processor 24 MB Smart Cache Box

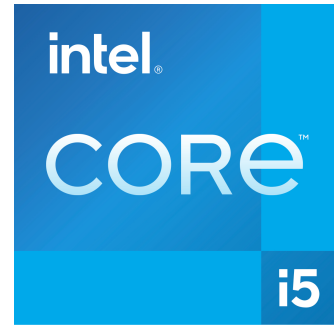
**Brand :** Intel

**Product family:** Core

**Product code:**  
BX8071514600K

**Product name :** i5-14600K

Boxed Intel® Core™ i5 processor 14600K (24M Cache, up to 5.30 GHz) FC-LGA16A  
Intel Core i5-14600K. Processor family: Intel® Core™ i5, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. On-board graphics card model: Intel UHD Graphics 770, On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card base frequency: 300 MHz. Market segment: Desktop, Use conditions: Workstation, PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Processor package size: 45 x 37.5 mm



Processor		Features	
Processor manufacturer *	Intel	Execute Disable Bit	✓
Processor generation	Intel Core i5-14xxx	Idle States	✓
Processor model *	i5-14600K	Thermal Monitoring Technologies	✓
Processor family *	Intel® Core™ i5	Market segment	Desktop
Processor cores *	14	Use conditions	Workstation, PC/Client/Tablet
Processor socket *	LGA 1700	Maximum number of PCI Express lanes	20
Processor threads	20	PCI Express slots version	4.0, 5.0
Processor operating modes *	64-bit	PCI Express configurations	1x16+1x4, 2x8+1x4
Performance cores	6	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Efficient cores	8	Scalability	15
Processor boost frequency	5.3 GHz	CPU configuration (max)	1
Performance-core boost frequency	5.3 GHz	Embedded options available	✗
Performance-core base frequency	3.5 GHz	Thermal solution specification	PCG 2020A
Efficient-core boost frequency	4 GHz	Direct Media Interface (DMI) Revision	4.0
Efficient-core base frequency	2.6 GHz	Export Control Classification Number (ECCN)	5A992C
Processor cache	24 MB	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor cache type	Smart Cache		
Box *	✓		
Cooler included *	✗		
Processor base power	125 W		
Maximum turbo power	181 W		
Stepping	B0		
Maximum number of DMI lanes	8		
Memory bandwidth supported by processor (max)	89.6 GB/s		
Processor codename	Raptor Lake		
Processor ARK ID	236799		
Memory		Processor special features	
Maximum internal memory supported by processor	192 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Turbo Boost Technology	2.0
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
ECC	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Non-ECC	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory bandwidth (max)	89.6 GB/s	Enhanced Intel SpeedStep Technology	✓
		Intel® Speed Shift Technology	✓
		Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
		Intel® Control-flow Enforcement Technology (CET)	✓
		Intel® Thread Director	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel® OS Guard	✓
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
On-board graphics card model *	Intel UHD Graphics 770		

Graphics		Processor special features	
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel 64	✓
On-board graphics card base frequency	300 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1550 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of displays supported (on-board graphics)	4	Intel® Boot Guard	✓
On-board graphics card DirectX version	12.0	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card OpenGL version	4.5	Intel® Volume Management Device (VMD)	✓
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Mode-based Execute Control (MBE)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Standard Manageability (ISM)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	<b>Operational conditions</b>	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	<b>Technical details</b>	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	OpenCL version	3.0
On-board graphics card ID	0xA780	Launch date	Q4'23
Discrete graphics card model *	Not available	Status	Launched
Number of execution units	32	<b>Logistics data</b>	
Multi-Format Codec Engines	2	Harmonized System (HS) code	8542310001
		<b>Weight &amp; dimensions</b>	
		Processor package size	45 x 37.5 mm
		<b>Other features</b>	
		L2 cache	20480 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1



5032037278447



0735858546898



735858546898



0735858546881



735858546881

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.