

Intel Core i5-14600K processor 24 MB Smart Cache

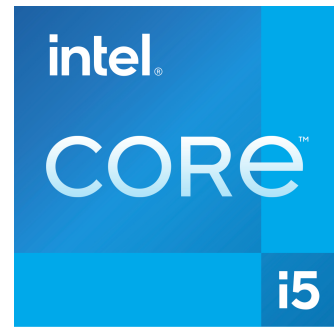
Brand : Intel

Product family: Core

Product code:
CM8071504821015

Product name : i5-14600K

Intel® Core™ i5 processor 14600K (24M Cache, up to 5.30 GHz) FC-LGA16A, Tray
 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	Idle States	✓
Processor generation	Intel Core i5-14xxx	Thermal Monitoring Technologies	✓
Processor model *	i5-14600K	Market segment	Desktop
Processor family *	Intel® Core™ i5	Use conditions	Workstation, PC/Client/Tablet
Processor cores *	14	Maximum number of PCI Express lanes	20
Processor socket *	LGA 1700	PCI Express slots version	4.0, 5.0
Processor threads	20	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor operating modes *	64-bit	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Performance cores	6	Scalability	15
Efficient cores	8	CPU configuration (max)	1
Processor boost frequency	5.3 GHz	Embedded options available	✗
Performance-core boost frequency	5.3 GHz	Thermal solution specification	PCG 2020A
Performance-core base frequency	3.5 GHz	Direct Media Interface (DMI) Revision	4.0
Efficient-core boost frequency	4 GHz	Export Control Classification Number (ECCN)	5A992C
Efficient-core base frequency	2.6 GHz	Commodity Classification Automated Tracking System (CCATS)	740.17B1
Processor cache	24 MB		
Processor cache type	Smart Cache		
Box *	✗		
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)	✓
Memory bandwidth (max)	89.6 GB/s	Intel® AES New Instructions (Intel® AES-NI)	✓
		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	✓
		Intel 64	✓
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
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		

Graphics		Processor special features	
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	Operational conditions	
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	Technical details	
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	Logistics data	
Multi-Format Codec Engines	2	Harmonized System (HS) code	8542310001
Features		Weight & dimensions	
Execute Disable Bit	✓	Processor package size	45 x 37.5 mm
		Other features	
		L2 cache	20480 KB
		Maximum internal memory	192 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1

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