

## Intel Core i5-13600K processor 24 MB Smart Cache Box

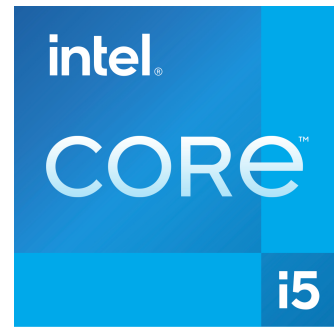
Brand : Intel

Product family: Core

Product code:  
BX8071513600K

Product name : i5-13600K

Boxed Intel® Core™ i5-13600K Processor (24M Cache, up to 5.10 GHz) FC-LGA16A  
 Intel Core i5-13600K. 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: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Package type: Retail box



| Processor                                      |                          | Features   |          |
|--|--------------------------|--|----------|
| Processor manufacturer *                       | Intel                    | Embedded options available                                 | ✗        |
| Processor generation                           | 13th gen Intel® Core™ i5 | Direct Media Interface (DMI) Revision                      | 4.0      |
| Processor model *                              | i5-13600K                | Export Control Classification Number (ECCN)                | 5A992C   |
| Processor family *                             | Intel® Core™ i5          | Commodity Classification Automated Tracking System (CCATS) | 740.17B1 |
| Processor cores *                              | 14                       | <b>Processor special features</b>                          |          |
| Processor socket *                             | LGA 1700                 | Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓        |
| Processor threads                              | 20                       | Intel® Turbo Boost Technology                              | 2.0      |
| Processor operating modes *                    | 64-bit                   | Intel® Quick Sync Video Technology                         | ✓        |
| Performance cores                              | 6                        | Intel® Clear Video HD Technology (Intel® CVT HD)           | ✓        |
| Efficient cores                                | 8                        | Intel® AES New Instructions (Intel® AES-NI)                | ✓        |
| Processor boost frequency                      | 5.1 GHz                  | Enhanced Intel SpeedStep Technology                        | ✓        |
| Performance-core boost frequency               | 5.1 GHz                  | Intel Trusted Execution Technology                         | ✓        |
| Performance-core base frequency                | 3.5 GHz                  | Intel® Speed Shift Technology                              | ✓        |
| Efficient-core boost frequency                 | 3.9 GHz                  | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0      | ✓        |
| Efficient-core base frequency                  | 2.6 GHz                  | Intel® Control-flow Enforcement Technology (CET)           | ✓        |
| Processor cache                                | 24 MB                    | Intel® Thread Director                                     | ✓        |
| Processor cache type                           | Smart Cache              | Intel VT-x with Extended Page Tables (EPT)                 | ✓        |
| Box *  | ✓                        | Intel® Secure Key  | ✓        |
| Cooler included *                              | ✗                        | Intel® Active Management Technology (Intel® AMT)           | ✓        |
| Processor base power                           | 125 W                    | Intel Stable Image Platform Program (SIPP)                 | ✓        |
| Maximum turbo power                            | 181 W                    | Intel® OS Guard  | ✓        |
| Stepping                                       | B0                       | Intel 64   | ✓        |
| Bus type                                       | DMI4                     | Intel Virtualization Technology (VT-x)                     | ✓        |
| Maximum number of DMI lanes                    | 8                        | Intel Virtualization Technology for Directed I/O (VT-d)    | ✓        |
| Memory bandwidth supported by processor (max)  | 89.6 GB/s                | Intel Turbo Boost Max Technology 3.0                       | ✗        |
| Processor codename                             | Raptor Lake              | Intel® Boot Guard  | ✓        |
| Processor ARK ID                               | 230493                   | Intel® Deep Learning Boost (Intel® DL Boost)               | ✓        |
| <b>Memory</b>                                  |                          |  |          |
| Maximum internal memory supported by processor | 192 GB                   |  |          |
| Memory types supported by processor            | DDR4-SDRAM, DDR5-SDRAM   |  |          |
| Memory channels *                              | Dual-channel             |  |          |
| ECC  | ✓                        |  |          |
| Non-ECC  | ✓                        |  |          |
| Memory bandwidth (max)                         | 89.6 GB/s                |  |          |
| <b>Graphics</b>                                |                          |  |          |
| On-board graphics card *                       | ✓                        |  |          |
| Discrete graphics card *                       | ✗                        |  |          |

| Graphics  |   | Processor special features  |                             |
|---|---|---|-----------------------------|
| On-board graphics card model *  | Intel UHD Graphics 770                                      | Intel® Volume Management Device (VMD)                             | ✓                           |
| On-board graphics card outputs supported  | Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1 | Mode-based Execute Control (MBE)                                  | ✓                           |
| On-board graphics card base frequency   | 300 MHz   | Intel® vPro™ Platform Eligibility                                 | ✓                           |
| On-board graphics card dynamic frequency (max)  | 1500 MHz  | Intel® Standard Manageability (ISM)                               | ✓                           |
| Number of displays supported (on-board graphics)  | 4   | Intel® One-Click Recovery   | ✓                           |
| On-board graphics card DirectX version  | 12.0  | Intel® Stable IT Platform Program (SIPP)                          | ✓                           |
| On-board graphics card OpenGL version   | 4.5   | Intel® Remote Platform Erase (RPE)                                | ✓                           |
| On-board graphics card maximum resolution (DisplayPort)                                 | 7680 x 4320 pixels  | Intel® Virtualization Technology with Redirect Protection (VT-rp) | ✓                           |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel)                 | 5120 x 3200 pixels  | Intel vPro® Enterprise Platform Eligibility                       | ✓                           |
| On-board graphics card maximum resolution (HDMI)  | 4096 x 2160 pixels  | Intel® Threat Detection Technology (TDT)                          | ✓                           |
| On-board graphics card refresh rate at maximum resolution (DisplayPort)                 | 60 Hz   | Intel® Hardware Shield Eligibility                                | ✓                           |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 120 Hz  | Intel® Total Memory Encryption - Multi Key                        | ✓                           |
| On-board graphics card refresh rate at maximum resolution (HDMI)                        | 60 Hz   | Intel vPro® Essentials Platform Eligibility                       | ✓                           |
| On-board graphics card ID   | 0xA780  |   |                             |
| Discrete graphics card model *  | Not available   |   |                             |
| Number of execution units   | 32  |   |                             |
| Multi-Format Codec Engines  | 2   |   |                             |
| Features  |   | Operational conditions  |                             |
| Execute Disable Bit   | ✓   | Tjunction   | 100 °C                      |
| Idle States   | ✓   |   |                             |
| Thermal Monitoring Technologies   | ✓   |   |                             |
| Market segment  | Desktop   | Technical details   |                             |
| Use conditions  | PC/Client/Tablet  | Target market   | Gaming                      |
| Maximum number of PCI Express lanes   | 20  | OpenCL version  | 3.0                         |
| PCI Express slots version   | 4.0, 5.0  | Launch date   | Q4'22                       |
| PCI Express configurations  | 1x16+1x4, 2x8+1x4   | Status  | Launched                    |
| Supported instruction sets  | SSE4.1, SSE4.2, AVX 2.0                                     | Logistics data  |                             |
| Scalability   | 1S  | Harmonized System (HS) code                                       | 8542310001                  |
| CPU configuration (max)   | 1   | Packaging data  |                             |
|   |   | Package type  | Retail box                  |
|   |   | 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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