

## Intel Core i5-14400F processor 20 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8071514400F

Product name : i5-14400F



Boxed Intel® Core™ i5 processor 14400F (20M Cache, up to 4.70 GHz) FC-LGA16A  
 Intel Core i5-14400F. 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. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 4.0, 5.0. Processor package size: 45 x 37.5 mm. L2 cache: 9728 KB, Maximum internal memory: 192 GB

| Processor                                      |                        | Features   |            |
|--|------------------------|--|------------|
| Processor manufacturer *                       | Intel                  | Scalability  | 1S         |
| Processor generation                           | Intel Core i5-14xxx    | CPU configuration (max)                                    | 1          |
| Processor model *                              | i5-14400F              | Embedded options available                                 | ✗          |
| Processor family *                             | Intel® Core™ i5        | Direct Media Interface (DMI) Revision                      | 4.0        |
| Processor cores *                              | 10                     | Export Control Classification Number (ECCN)                | 5A992C     |
| Processor socket *                             | LGA 1700               | Commodity Classification Automated Tracking System (CCATS) | 740.17B1   |
| Processor threads                              | 16                     | <b>Processor special features</b>                          |            |
| Processor operating modes *                    | 64-bit                 | Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓          |
| Performance cores                              | 6                      | Intel® Turbo Boost Technology                              | 2.0        |
| Efficient cores                                | 4                      | Intel® AES New Instructions (Intel® AES-NI)                | ✓          |
| Processor boost frequency                      | 4.7 GHz                | Enhanced Intel SpeedStep Technology                        | ✓          |
| Performance-core boost frequency               | 4.7 GHz                | Intel® Speed Shift Technology                              | ✓          |
| Performance-core base frequency                | 2.5 GHz                | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0      | ✓          |
| Efficient-core boost frequency                 | 3.5 GHz                | Intel® Control-flow Enforcement Technology (CET)           | ✓          |
| Efficient-core base frequency                  | 1.8 GHz                | Intel® Thread Director                                     | ✓          |
| Processor cache                                | 20 MB                  | Intel VT-x with Extended Page Tables (EPT)                 | ✓          |
| Processor cache type                           | Smart Cache            | Intel® Secure Key  | ✓          |
| Box *  | ✓                      | Intel® OS Guard  | ✓          |
| Cooler included *                              | ✓                      | Intel 64   | ✓          |
| Processor base power                           | 65 W                   | Intel Virtualization Technology (VT-x)                     | ✓          |
| Maximum turbo power                            | 148 W                  | Intel Virtualization Technology for Directed I/O (VT-d)    | ✓          |
| Maximum number of DMI lanes                    | 8                      | Intel® Boot Guard  | ✓          |
| Memory bandwidth supported by processor (max)  | 76.8 GB/s              | Intel® Deep Learning Boost (Intel® DL Boost)               | ✓          |
| Processor codename                             | Raptor Lake            | Intel® Volume Management Device (VMD)                      | ✓          |
| Processor ARK ID                               | 236777                 | Mode-based Execute Control (MBE)                           | ✓          |
| <b>Memory</b>                                  |                        | Intel® Standard Manageability (ISM)                        | ✓          |
| Maximum internal memory supported by processor | 192 GB                 | <b>Operational conditions</b>                              |            |
| Memory types supported by processor            | DDR4-SDRAM, DDR5-SDRAM | Tjunction  | 100 °C     |
| Memory channels *                              | Dual-channel           | <b>Logistics data</b>                                      |            |
| Memory bandwidth (max)                         | 76.8 GB/s              | Harmonized System (HS) code                                | 8542310001 |
| <b>Graphics</b>                                |                        |  |            |
| On-board graphics card *                       | ✗                      |  |            |
| Discrete graphics card *                       | ✗                      |  |            |
| On-board graphics card model *                 | Not available          |  |            |
| Discrete graphics card model *                 | Not available          |  |            |
| <b>Features</b>                                |                        |  |            |
| Execute Disable Bit                            | ✓                      |  |            |
| Idle States                                    | ✓                      |  |            |
| Thermal Monitoring Technologies                | ✓                      |  |            |

| Features                            |                         | Technical details              |              |
|-------------------------------------|-------------------------|--------------------------------|--------------|
| Market segment                      | Desktop                 | Launch date                    | Q1'24        |
| Use conditions                      | PC/Client/Tablet        | Status                         | Launched     |
| Maximum number of PCI Express lanes | 20                      | <b>Weight &amp; dimensions</b> |              |
| PCI Express slots version           | 4.0, 5.0                | Processor package size         | 45 x 37.5 mm |
| PCI Express configurations          | 1x16+1x4, 2x8+1x4       | <b>Other features</b>          |              |
| Supported instruction sets          | AVX 2.0, SSE4.1, SSE4.2 | L2 cache                       | 9728 KB      |
|                                     |                         | Maximum internal memory        | 192 GB       |



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