



# Intel Core i7-12700KF processor 25 MB Smart Cache Box

Merk : Intel      Productfamilie: Core      Artikelcode: BX8071512700KF

Productnaam : i7-12700KF



Intel Core i7-12700KF. Processorfamilie: Intel® Core™ i7, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, PCI Express slots versie: 5.0, 4.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5 GHz. Type verpakking: Retaildoos



| Processor                                                |                                | Kenmerken                                                     |           |
|----------------------------------------------------------|--------------------------------|---------------------------------------------------------------|-----------|
| Processorfabrikant *                                     | Intel                          | Schaalbaarheid                                                | 1S        |
| Processorgeneratie                                       | Intel® 12de generatie Core™ i7 | CPU configuratie (max)                                        | 1         |
| Processormodel *                                         | i7-12700KF                     | Ingebouwde opties beschikbaar                                 | ✗         |
| Processorfamilie *                                       | Intel® Core™ i7                | Thermal solution specificatie                                 | PCG 2020A |
| Aantal processorkernen *                                 | 12                             | Export Control Classification Number (ECCN)                   | 5A992CN3  |
| Processor socket *                                       | LGA 1700                       | Commodity Classification Automated Tracking System (CCATS)    | G167599   |
| Component voor                                           | PC                             | Processor speciale functies                                   |           |
| Processor aantal threads                                 | 20                             | Intel® Hyper Threading Technology (Intel® HT Technology)      | ✓         |
| Processor operating modes *                              | 64-bit                         | Intel® Turbo Boost Technology                                 | 2.0       |
| Prestatiekernen                                          | 8                              | Intel® AES New Instructions (Intel® AES-NI)                   | ✓         |
| Efficiënte kernen                                        | 4                              | Enhanced Intel SpeedStep Technology                           | ✓         |
| Maximale turbofrequentie van processor                   | 5 GHz                          | Intel® Speed Shift-technologie                                | ✓         |
| Prestatie-kernboostfrequentie                            | 4,9 GHz                        | Intel® Turbo Boost Max Technology 3.0 frequency               | 5 GHz     |
| Prestatie-kernbasisfrequentie                            | 3,6 GHz                        | Intel® Control-flow Enforcement Technology (CET)              | ✓         |
| Efficiënte kernboostfrequentie                           | 3,8 GHz                        | Intel® Thread Director                                        | ✓         |
| Efficiënte kernbasisfrequentie                           | 2,7 GHz                        | Intel® VT-x with Extended Page Tables (EPT)                   | ✓         |
| Processor cache                                          | 25 MB                          | Intel® Secure Key                                             | ✓         |
| Processor cache type                                     | Smart Cache                    | Intel® OS Guard                                               | ✓         |
| Box *                                                    | ✓                              | Intel® 64                                                     | ✓         |
| Inclusief koeler *                                       | ✗                              | Intel® Virtualization Technology (VT-x)                       | ✓         |
| Processor basisvermogen                                  | 125 W                          | Intel® Virtualization Technology for Directed I/O (VT-d)      | ✓         |
| Maximaal turbovermogen                                   | 190 W                          | Intel® Turbo Boost Max Technology 3.0                         | ✓         |
| Bus type                                                 | DMI4                           | Intel® Optane™ Memory Ready                                   | ✓         |
| Maximum aantal DMI lanes                                 | 8                              | Intel® Boot Guard                                             | ✓         |
| Geheugenbandbreedte ondersteund door de processor ( max) | 76,8 GB/s                      | Intel® Deep Learning Boost (Intel® DL Boost)                  | ✓         |
| Codenaam processor                                       | Alder Lake                     | Intel® Volume Management Device (VMD)                         | ✓         |
| ARK ID processor                                         | 134595                         | Mode-based Execute Control (MBE)                              | ✓         |
| Geheugen                                                 |                                | Intel® Standard Manageability (ISM, Standaard beheerbaarheid) | ✓         |
| Maximaal intern geheugen ondersteund door processor      | 128 GB                         | Eisen aan de omgeving                                         |           |
| Geheugentypen ondersteund door processor                 | DDR4-SDRAM, DDR5-SDRAM         | Tjunction                                                     | 100 °C    |
| Geheugen kanaal *                                        | Dubbelkanaals                  | Logistieke gegevens                                           |           |
| ECC                                                      | ✗                              |                                                               |           |
| Non-ECC                                                  | ✓                              |                                                               |           |
| Geheugen bandbreedte (max)                               | 76,8 GB/s                      |                                                               |           |
| Grafisch                                                 |                                |                                                               |           |
| Ingebouwde grafische adapter *                           | ✗                              |                                                               |           |
| Aparte grafische adapter *                               | ✗                              |                                                               |           |
| On-board graphics adapter model *                        | Niet beschikbaar               |                                                               |           |
| Discreet grafische adapter model *                       | Niet beschikbaar               |                                                               |           |

| Kenmerken                          |                         | Logistieke gegevens                       |                          |
|------------------------------------|-------------------------|-------------------------------------------|--------------------------|
| Execute Disable Bit                | ✓                       | Code geharmoniseerd systeem (HS) 85423119 |                          |
| Idle States                        | ✓                       |                                           |                          |
| Thermal Monitoring Technologies    | ✓                       |                                           |                          |
| Marktsegment                       | Desktop                 |                                           |                          |
| Gebruiksvoorwaarden                | PC/Client/Tablet        |                                           |                          |
| Maximaal aantal PCI Express-lijnen | 20                      |                                           |                          |
| PCI Express slots versie           | 5.0, 4.0                |                                           |                          |
| PCI Express configuraties          | 1x16+1x4, 2x8+1x4       |                                           |                          |
| Ondersteunde instructie sets       | SSE4.1, SSE4.2, AVX 2.0 |                                           |                          |
|                                    |                         | Verpakking                                |                          |
|                                    |                         | Type verpakking                           | Retaildoos               |
|                                    |                         | Technische details                        |                          |
|                                    |                         | Doelgroep                                 | Gaming, Content Creation |
|                                    |                         | Lanceringsdatum                           | Q4'21                    |
|                                    |                         | Status                                    | Launched                 |
|                                    |                         | Gewicht en omvang                         |                          |
|                                    |                         | Verpakkingsgrootte processor              | 45 x 37.5 mm             |
|                                    |                         | Overige specificaties                     |                          |
|                                    |                         | Maximum intern geheugen                   | 128 GB                   |



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Publication date: 02-APR-2024. Prints or copies of Information are only valid on the printed Publication date