

## Intel Core i5-13500 processor 24 MB Smart Cache Box

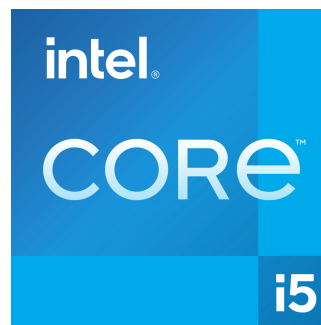
**Merk :** Intel

**Productfamilie:** Core

**Artikelcode:** BX8071513500

**Productnaam :** i5-13500

Intel Core i5-13500. Processorfamilie: Intel® Core™ i5, Processor socket: LGA 1700, Processorfabrikant: Intel. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 192 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM, DDR5-SDRAM. On-board graphics adapter model: Intel UHD Graphics 770, On-board ondersteunde grafische adapter uitgangen: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, Basisfrequentie ingebouwde grafische adapter: 300 MHz. Marktsegment: Desktop, Gebruiksvoorwaarden: PC/Client/Tablet, Workstation, PCI Express slots versie: 5.0, 4.0. Type verpakking: Retaildoos



| Processor                                                |                                | Kenmerken                                                  |          |
|----------------------------------------------------------|--------------------------------|------------------------------------------------------------|----------|
| Processorfabrikant *                                     | Intel                          | Ingebouwde opties beschikbaar                              | ✓        |
| Processorgeneratie                                       | Intel® 13de generatie Core™ i5 | Directe media-interface (DMI) revisie                      | 4.0      |
| Processormodel *                                         | i5-13500                       | Export Control Classification Number (ECCN)                | 5A992C   |
| Processorfamilie *                                       | Intel® Core™ i5                | Commodity Classification Automated Tracking System (CCATS) | 740.17B1 |
| Aantal processorkernen *                                 | 14                             | <b>Processor speciale functies</b>                         |          |
| Processor socket *                                       | LGA 1700                       | Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓        |
| Processor aantal threads                                 | 20                             | Intel® Turbo Boost Technology                              | 2.0      |
| Processor operating modes *                              | 64-bit                         | Intel® Quick Sync Video Technology                         | ✓        |
| Prestatiekernen                                          | 6                              | Intel® Clear Video HD Technology (Intel® CVT HD)           | ✓        |
| Efficiënte kernen                                        | 8                              | Intel® AES New Instructions (Intel® AES-NI)                | ✓        |
| Maximale turbofrequentie van processor                   | 4,8 GHz                        | Enhanced Intel SpeedStep Technology                        | ✓        |
| Prestatie-kernboostfrequentie                            | 4,8 GHz                        | Intel® Trusted Execution Technology                        | ✓        |
| Prestatie-kernbasisfrequentie                            | 2,5 GHz                        | Intel® Speed Shift-technologie                             | ✓        |
| Efficiënte kernboostfrequentie                           | 3,5 GHz                        | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0      | ✓        |
| Efficiënte kernbasisfrequentie                           | 1,8 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                                          | ✓        |
| Processor basisvermogen                                  | 65 W                           | Intel® Active Management Technology (Intel® AMT)           | ✓        |
| Maximaal turbovermogen                                   | 154 W                          | Intel® Stable Image Platform Program (SIPP)                | ✓        |
| Bus type                                                 | DMI4                           | Intel® OS Guard                                            | ✓        |
| Maximum aantal DMI lanes                                 | 8                              | Intel® 64                                                  | ✓        |
| Geheugenbandbreedte ondersteund door de processor ( max) | 76,8 GB/s                      | Intel® Virtualization Technology (VT-x)                    | ✓        |
| Codenaam processor                                       | Raptor Lake                    | Intel® Virtualization Technology for Directed I/O (VT-d)   | ✓        |
| ARK ID processor                                         | 230580                         | Intel® Turbo Boost Max Technology 3.0                      | ✗        |
| <b>Geheugen</b>                                          |                                | Intel® Boot Guard                                          | ✓        |
| Maximaal intern geheugen ondersteund door processor      | 192 GB                         |                                                            |          |
| Geheugentypen ondersteund door processor                 | DDR4-SDRAM, DDR5-SDRAM         |                                                            |          |
| Geheugen kanaal *                                        | Dubbelkanaals                  |                                                            |          |
| ECC                                                      | ✓                              |                                                            |          |
| Geheugen bandbreedte (max)                               | 76,8 GB/s                      |                                                            |          |
| <b>Grafisch</b>                                          |                                |                                                            |          |
| Ingebouwde grafische adapter *                           | ✓                              |                                                            |          |
| Aparte grafische adapter *                               | ✗                              |                                                            |          |
| On-board graphics adapter model *                        | Intel UHD Graphics 770         |                                                            |          |

| Grafisch                                                                         |                                                             | Processor speciale functies                                       |                             |
|----------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------|
| On-board ondersteunde grafische adapter uitgangen                                | Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1 | Intel® Deep Learning Boost (Intel® DL Boost)                      | ✓                           |
| Basisfrequentie ingebouwde grafische adapter                                     | 300 MHz                                                     | Intel® Volume Management Device (VMD)                             | ✓                           |
| Graphics on-board -adapter dynamische frequentie (max)                           | 1550 MHz                                                    | Mode-based Execute Control (MBE)                                  | ✓                           |
| Aantal displays ondersteund (door on-board grafische adapter)                    | 4                                                           | Intel® vPro™ Platform Eligibility                                 | ✓                           |
| On-board grafische adapter DirectX-versie                                        | 12.0                                                        | Intel® Standard Manageability (ISM, Standaard beheerbaarheid)     | ✓                           |
| On-board grafische adapter OpenGL versie                                         | 4.5                                                         | Intel® One-Click Recovery (Herstel met 1 klik)                    | ✓                           |
| Graphics aan boord maximale resolutie adapter (DisplayPort )                     | 7680 x 4320 Pixels                                          | Intel® Remote Platform Erase (RPE)                                | ✓                           |
| Maximale resolutie (eDP - Integrated Flat Panel)                                 | 5120 x 3200 Pixels                                          | Intel® virtualisatietechnologie met omleidingsbescherming (VT-rp) | ✓                           |
| Maximale resolutie ingebouwde grafische adapter (HDMI)                           | 4096 x 2160 Pixels                                          | Intel vPro® Enterprise-platformvoorwaarden                        | ✓                           |
| Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort )    | 60 Hz                                                       | Intel® -technologie voor dreigingsdetectie (TDT)                  | ✓                           |
| Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)                 | 120 Hz                                                      | Intel® Hardware Shield-voorwaarden                                | ✓                           |
| Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI) | 60 Hz                                                       | Intel® totale geheugencodering - Meerdere sleutels                | ✓                           |
| On-board grafische adapter ID                                                    | 0x4680                                                      | Intel vPro® Essentials-platformvoorwaarden                        | ✓                           |
| Discreet grafische adapter model *                                               | Niet beschikbaar                                            | Eisen aan de omgeving                                             |                             |
| Aantal verwerkingseenheden                                                       | 32                                                          | Tjunction                                                         | 100 °C                      |
| Multi-Formaat Codec-motoren                                                      | 2                                                           | Technische details                                                |                             |
| Kenmerken                                                                        |                                                             | Doelgroep                                                         | Gaming                      |
| Execute Disable Bit                                                              | ✓                                                           | OpenCL-versie                                                     | 3.0                         |
| Idle States                                                                      | ✓                                                           | Lanceringsdatum                                                   | Q1'23                       |
| Thermal Monitoring Technologies                                                  | ✓                                                           | Status                                                            | Launched                    |
| Marktsegment                                                                     | Desktop                                                     | Logistieke gegevens                                               |                             |
| Gebruiksvoorwaarden                                                              | PC/Client/Tablet, Workstation                               | Code geharmoniseerd systeem (HS)                                  | 8542310001                  |
| Maximaal aantal PCI Express-lijnen                                               | 20                                                          | Verpakking                                                        |                             |
| PCI Express slots versie                                                         | 5.0, 4.0                                                    | Type verpakking                                                   | Retaildoos                  |
| PCI Express configuraties                                                        | 1x16+1x4, 2x8+1x4                                           | Gewicht en omvang                                                 |                             |
| Ondersteunde instructie sets                                                     | SSE4.1, SSE4.2, AVX 2.0                                     | Verpakkingsgrootte processor                                      | 45 x 37.5 mm                |
| Schaalbaarheid                                                                   | 1S                                                          | Overige specificaties                                             |                             |
| CPU configuratie (max)                                                           | 1                                                           | L2 cache                                                          | 11776 KB                    |
|                                                                                  |                                                             | Maximum intern geheugen                                           | 192 GB                      |
|                                                                                  |                                                             | Grafische uitvoer                                                 | eDP 1.4b, DP 1.4a, HDMI 2.1 |



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