

# Intel Core i7 13700F - 2.1 GHz - 16 Kerne - 24 Threads

30 MB Cache-Speicher - FCLGA1700 Socket - Box

|                     |               |
|---------------------|---------------|
| Gruppe              | Prozessoren   |
| Hersteller          | Intel         |
| Hersteller Art. Nr. | BX8071513700F |
| EAN/UPC             | 5032037260237 |



## Beschreibung

Diese Prozessoren treiben High-End-PCs mit hervorragender CPU-Leistung für diskrete Grafik und KI-Beschleunigung an.

## Hauptmerkmale

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Produktbeschreibung     | Intel Core i7 13700F / 2.1 GHz Prozessor - Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Produkttyp              | Prozessor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Prozessortyp            | Intel Core i7 13700F (13. Gen.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Anz. der Kerne          | 16 Kerne / 24 Threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cache-Speicher          | 30 MB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Geeignete Sockel        | FCLGA1700 Socket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Prozessoranz.           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Taktfrequenz            | 2.1 GHz (P-Kern) / 1.5 GHz (E-Kern)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max. Turbo-Taktfrequenz | 5.2 GHz (P-Kern) / 4.1 GHz (E-Kern)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Herstellungsprozess     | 10 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Funktionen              | Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Intel Deep Learning Boost (DL Boost), Intel Speed Shift Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Hyper-Threading-Technologie, Intel 64 Technology, Instruction Set 64-bit, Streaming-SIMD-Erweiterungen 4.1, Streaming-SIMD-Erweiterungen 4.2, Intel Advanced Vector Extensions 2 (AVX2.0), Idle States, Enhanced SpeedStep technology, Thermal Monitoring Technologies, Intel Volume Management Device (VMD), Intel Standard Manageability (ISM), Intel Control-Flow Enforcement Technology, Intel AES New Instructions (AES-NI), Intel Secure Key, Intel OS Guard, Unterstützung für Execute Disable Bit, Intel Boot Guard, Mode-based Execute Control (MBEC), Intel Virtualization Technology, Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT) |

## Ausführliche Details

|                  |                                 |
|------------------|---------------------------------|
|                  | Allgemein                       |
| Produkttyp       | Prozessor                       |
|                  | Prozessor                       |
| Typ / Formfaktor | Intel Core i7 13700F (13. Gen.) |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Anz. der Kerne              | 16 Kerne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Anz. der Threads            | 24 Threads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cache-Speicher              | 30 MB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Cache-Speicher-Details      | Smart Cache - 30 MB<br>L2 - 24 MB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Prozessoranz.               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Taktfrequenz                | 2.1 GHz (P-Kern) / 1.5 GHz (E-Kern)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max. Turbo-Taktfrequenz     | 5.2 GHz (P-Kern) / 4.1 GHz (E-Kern)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Geeignete Sockel            | FCLGA1700 Socket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Herstellungsprozess         | 10 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Thermal Design Power (TDP)  | 219 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Temperaturspezifikationen   | 100 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCI Express Revision        | 4.0/5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PCI Express-Konfigurationen | 1x16+4, 2x8+4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Anz. PCI Express Lanes      | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Architektur-Merkmale        | Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Intel Deep Learning Boost (DL Boost), Intel Speed Shift Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Hyper-Threading-Technologie, Intel 64 Technology, Instruction Set 64-bit, Streaming-SIMD-Erweiterungen 4.1, Streaming-SIMD-Erweiterungen 4.2, Intel Advanced Vector Extensions 2 (AVX2.0), Idle States, Enhanced SpeedStep technology, Thermal Monitoring Technologies, Intel Volume Management Device (VMD), Intel Standard Manageability (ISM), Intel Control-Flow Enforcement Technology, Intel AES New Instructions (AES-NI), Intel Secure Key, Intel OS Guard, Unterstützung für Execute Disable Bit, Intel Boot Guard, Mode-based Execute Control (MBEC), Intel Virtualization Technology, Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT) |
|                             | <b>Verschiedenes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Verpackung                  | Intel Boxed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                             | <b>Abmessungen &amp; Gewicht (Transport)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Transportbreite             | 4.5 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Transporttiefe              | 3.75 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                             | <b>Herstellergarantie</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Service und Support         | Begrenzte Garantie - 3 Jahre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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