

Intel Core i7 12700KF / 3.6 GHz processor - Box (without cooler)(BX8071512700KF)

Intel Core i7 12700KF - 3.6 GHz - 12-core - 20 threads - 25 MB cache - LGA1700 Socket - Box (without cooler)

These processors power high-end PCs with excellent CPU performance for discrete-level graphics, and AI acceleration.

Key Selling Points

- Intel Wi-Fi 6 (Gig+)
- Intelligent performance
- Make your computer an entertainment center
- Collaboration

Product Features

- Intel Wi-Fi 6 (Gig+)**
Intel Wi-Fi 6 (Gig+) enabled PCs and wireless networks deliver a generational advance in Wi-Fi performance, traffic management, improved latency, interference avoidance and enhanced security for best-in-class connectivity.
- Intelligent performance**
Optimize PC performance for the experience you've been waiting for with built-in AI instructions in Intel Core processors. Stream, browse, edit, video chat, or just take care of business at home. Whatever you're doing, rely on Intel Core processors for the performance you need.
- Make your computer an entertainment center**
Get an amazing entertainment hub - stream 4K UHD videos, power virtual reality, and play the most demanding games. With 4x more pixels on screen than traditional HD, you can enjoy sharp, lifelike visuals, complex shading, and fast frame rates - all with virtually no stuttering, buffering, or lags. And be ready for revolutionary immersive experiences yet to come.
- Collaboration**
Enhance your collaboration experience with support for AI features including neural noise cancellation and background blur. The Wi-Fi connectivity with Intel Wi-Fi 6 (Gig +) ensures a responsive and reliable connection for immersive connectivity.

Main Specifications

Product Description	Intel Core i7 12700KF / 3.6 GHz processor - Box (without cooler)
Product Type	Processor
Processor Type	Intel Core i7 12700KF (12th Gen)
Number of Cores	12-core / 20 threads
Cache	25 MB
Compatible Processor Socket	LGA1700 Socket
Processor Qty	1
Clock Speed	3.6 GHz
Max Turbo Speed	5 GHz
Manufacturing Process	7 nm
Features	Enhanced SpeedStep technology, Hyper-Threading Technology, Execute Disable Bit capability, Intel Virtualization Technology, Intel 64 Technology, streaming SIMD extensions 4.1, streaming SIMD extensions 4.2, Intel Turbo Boost Technology 2.0, Intel AES New Instructions (AES-NI), Thermal Monitoring Technologies, Intel Virtualization Technology for Directed I/O (VT-d), Idle States, Intel VT-x with Extended Page Tables (EPT), Intel Secure Key, Intel Advanced Vector Extensions 2 (AVX2.0), Intel OS Guard, Intel Speed Shift Technology, Intel Optane Memory Supported, Mode-based Execute Control (MBE), Intel Volume Management Device (VMD), Intel Boot Guard, Intel Deep Learning Boost (DL Boost), Intel Control-Flow Enforcement Technology, Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Instruction Set 64-bit
Manufacturer Warranty	3-year warranty

Extended Specification

General

Product Type	Processor
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Manufacturer Warranty

Service & Support	Limited warranty - 3 years
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Processor

Type / Form Factor	Intel Core i7 12700KF (12th Gen)
Number of Cores	12-core
Number of Threads	20 threads
Cache	25 MB
Cache Memory Details	Smart Cache - 25 MB L2 - 12 MB
Processor Qty	1
Clock Speed	3.6 GHz
Max Turbo Speed	5 GHz
Compatible Processor Socket	LGA1700 Socket
Manufacturing Process	7 nm
Thermal Design Power	190 W
Thermal Specification	100 °C
PCI Express Revision	5.0
PCI Express Configurations	1x16+1x4, 2x8+1x4
PCI Express Lanes Qty	20

Architecture Features	Enhanced SpeedStep technology, Hyper-Threading Technology, Execute Disable Bit capability, Intel Virtualization Technology, Intel 64 Technology, streaming SIMD extensions 4.1, streaming SIMD extensions 4.2, Intel Turbo Boost Technology 2.0, Intel AES New Instructions (AES-NI), Thermal Monitoring Technologies, Intel Virtualization Technology for Directed I/O (VT-d), Idle States, Intel VT-x with Extended Page Tables (EPT), Intel Secure Key, Intel Advanced Vector Extensions 2 (AVX2.0), Intel OS Guard, Intel Speed Shift Technology, Intel Optane Memory Supported, Mode-based Execute Control (MBE), Intel Volume Management Device (VMD), Intel Boot Guard, Intel Deep Learning Boost (DL Boost), Intel Control-Flow Enforcement Technology, Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Instruction Set 64-bit
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Miscellaneous

Package Type	Intel Boxed without heatsink/fan
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