

Intel Core i5 12500 / 3 GHz processor - Box(BX8071512500)

Intel Core i5 12500 - 3 GHz - 6-core - 12 threads - 18 MB cache - LGA1700 Socket - Box

Create, edit, share 4K content, and enjoy immersive experiences with these processors.

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 i5 12500 / 3 GHz processor - Box
Product Type	Processor
Processor Type	Intel Core i5 12500 (12th Gen)
Number of Cores	6-core / 12 threads
Cache	18 MB
Integrated Graphics	Intel UHD Graphics 770
Compatible Processor Socket	LGA1700 Socket
Processor Qty	1
Clock Speed	3 GHz
Max Turbo Speed	4.6 GHz
Manufacturing Process	10 nm
Features	Intel Gaussian and Neural Accelerator 3.0, Intel Deep Learning Boost (DL Boost), Intel Optane Memory Supported, Intel Speed Shift Technology, Intel Turbo Boost Technology 2.0, Hyper-Threading Technology, Intel Virtualization Technology, Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT), Intel 64 Technology, Instruction Set 64-bit, streaming SIMD extensions 4.1, streaming SIMD extensions 4.2, Intel Advanced Vector Extensions 2 (AVX2.0), Idle States, Enhanced SpeedStep technology, Thermal Monitoring Technologies, Intel Volume Management Device (VMD), Intel AES New Instructions (AES-NI), Intel Secure Key, Intel OS Guard, Execute Disable Bit capability, Intel Boot Guard, Mode-based Execute Control (MBE), Intel Control-Flow Enforcement Technology
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 i5 12500 (12th Gen)
Number of Cores	6-core
Number of Threads	12 threads
Cache	18 MB
Cache Memory Details	L3 - Smart Cache - 18 MB   L2 - 7.5 MB
Processor Qty	1
Clock Speed	3 GHz
Max Turbo Speed	4.6 GHz
Compatible Processor Socket	LGA1700 Socket
Manufacturing Process	10 nm
Thermal Design Power	117 W
Thermal Specification	100 °C
PCI Express Revision	4.0/5.0
PCI Express Configurations	1x16+4, 2x8+4
PCI Express Lanes Qty	20

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

Package Type	Intel Boxed
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Integrated Graphics

Type	Intel UHD Graphics 770
Base Frequency	300 MHz
Max Dynamic Frequency	1.45 GHz
Max Supported Resolution	4096x2160@60Hz (HDMI), 7680x4320@60Hz (DP), 5120x3200@120Hz (eDP)
Features	Intel Quick Sync Video, Intel Clear Video HD Technology, Quad Display Capable