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Intel Core i5-10500 3.1 GHz Six-Core LGA 1200 Processor

\$239.95

Product Images







Short Description

The Core i5-10500 3.1 GHz Six-Core LGA 1200 Processor from Intel has a base clock speed of 3.1 GHz and

comes with features such as Intel Optane Memory support, Intel vPro, Intel Boot Guard, Intel VT-d Virtualization Technology for Directed I/O, and Intel Hyper-Threading technology. With Intel Turbo Boost 2.0, the maximum turbo frequency this processor can achieve is 4.5 GHz.

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Having 6 cores allows the processor to run multiple programs simultaneously without slowing down the system, while the 12 threads allow a basic ordered sequence of instructions to be passed through or processed by a single CPU core. This processor also supports 128GB of dual-channel 2666 MHz DDR4 RAM and utilizes 10th-generation technology. Graphically, the Core i5-10500 uses the integrated Intel UHD Graphics 630 chipset, which has a base frequency of 350 MHz and a dynamic frequency of 1.15 GHz. A thermal solution is included and protection is provided by a limited 3-year warranty.

Features

ELITE REAL-WORLD

10TH GEN CORE 15

For seamless gameplay & entertainment

SPECIFICATIONS

CORES 12 THREADS Base Clock Speed (GHz) Intel® Smart Cache TDP

Platform PCI Express Lanes Memory Support Chipset

Up to 3.1 12 MB 65 W Up to 40

Two channels DDR4-26662 400 Series



Get up to 4.5 GHz clock speed th Intel* Turbo Boost Technology 2.01



Multi-task effortlessly with Intel® Hyper-Threading Technology



Intel* Quick Sync Video allows you to create Ultra HD videos with incredible speed





LEVEL UP YOUR TECHNOLOGY

Experience amazing gameplay and creativity with Intel's supported platform features. Get more from your PC build by untethering with Intel® Wi-Fi 6 (Gig+), versatile connectivity with Thunderbolt® 3, and accelerated responsiveness with Intel® Optane™ memory.

INTEL® EASY STREAMING WIZARD

LIVE STREAM IN MINUTES, NOT HOURS

Looking to start a live stream, but unsure how to start? Intel® Easy Streaming Wizard makes it easier than ever to get up and streaming with Open Broadcaster Software (OBS) in minutes, instead of hours.3

CHOOSE YOUR PERFECT FIT

FOR EVERYDAY PRODUCTIVITY

FOR SEAMLESS GAMEPLAY & ENTERTAINMENT

FOR COMPETITIVE GAMING & CONTENT CREATION

FOR ENTHUSIAST GAMING & CONTENT CREATION









UP TO Cores/Threads: 4/8 6/12 8/16 10/20 Max Frequency (GHz)1: 4.8 5.2

- nology 20
 Ms but only 1 DPC for SODIMMs. DDR4 2DPC UDIMM 2933 or 2666 is capable when same UDIMM part number are populated with in an of Intel® Easy Streaming Wizard. For more information and a full list of compatible processors, please visit intel.com/easystreaming

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Intel i5-10500 Specs

General

CPU Model Intel Core i5-10500

CPU Socket LGA 1200

Manufacturing Process 14 nm

Maximum CPU Configuration 1S

Maximum Number of PCIe Lanes 16 (Revision 3.0)

Unlocked No

Performance

Number of Cores 6

Number of Threads 12

Base Clock Speed 3.1 GHz

Maximum Boost Speed 4.5 GHz

L3 Cache 12 MB

Memory Support

Maximum Capacity 128 GB

Memory Support DDR4 2666 MHz

ECC Memory No

Channel Architecture Dual Channel

Maximum Memory Bandwidth 41.6 GB/s

Power

Thermal Design Power (TDP) 65 W

Included Thermal Solution PCG 2015C

Maximum Temperature 212°F / 100°C

Thermal Monitoring Technologies Yes

Technology

AES Support Yes

Extension AVX 2.0, SSE 4.1/4.2

Instruction Set 64-Bit

Virtualization Yes: Intel VT-d, Intel VT-x, Intel VT-x with Extended Page Tables (EPT)

Integrated Graphics

Graphics Chipset Intel UHD Graphics 630

Maximum Resolution Support 4096 x 2304 at 60 Hz

DirectX: 12 Supported APIs

OpenGL: 4.5

Number of Displays

Maximum Shared Video Memory 64 GB

Output Support eDP, DisplayPort, HDMI

Base Clock Speed 350 MHz

Maximum Boost Speed 1.15 GHz

Intel

DMI DMI3 (8 GT/s)

Optane Memory Support Yes

vPro Support Yes

Hyper-Threading, SpeedStep, Stable Image Platform Program, Turbo Boost Performance Technologies

2.0

Device Protection with Boot Guard, Execute Disable Bit, Identity Protection,

Security Technologies OS Guard, Secure Key, Software Guard Extensions, Trusted Execution

Technology

Video Technologies Clear Video, Clear Video HD, InTru 3D, Quick Sync Video

Additional Information

Brand	Intel
SKU	BX8070110500
Weight	1.5000
Compatibilty	Intel LGA 1200
Series	Core i5
Cores	6
Core Name	Comet Lake
Operating Frequency	3.1 GHz
Hyper Threading Support	No
Threads	12
Thermal Design Power	65W



5/18/22