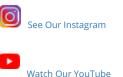


Performance-PCs.com

1701 R. J. Conlan Blvd. NE, Unit #5 Palm Bay, FL 32905, USA

Toll Free: 888-381-8222





\$409.99



www.performance-pcs.com sales@performance-pcs.com

Intel Core i9-10850K 3.6 GHz Ten-Core LGA 1200

Product Images



The Core i9-10850K 3.6 GHz Ten-Core LGA 1200 Processor from Intel has a base clock speed of 3.6 GHz and comes with features such as Intel Optane Memory support, Intel Boot Guard, Intel VT-d virtualization technology for directed I/O, and Intel Hyper-Threading technology.

Description

The Core i9-10850K 3.6 GHz Ten-Core LGA 1200 Processor from Intel has a base clock speed of 3.6 GHz and comes with features such as Intel Optane Memory support, Intel Boot Guard, Intel VT-d virtualization technology for directed I/O, and Intel Hyper-Threading technology. With Intel Thermal Velocity Boost and Turbo Boost 2.0, the maximum turbo frequency this processor can achieve is 5.2 GHz. Additionally, this processor features 10 cores with 20 threads in an LGA 1200 socket, has 20MB of Intel Smart Cache memory, and 16 PCIe 3.0 lanes. Having 10 cores allows the processor to run multiple programs simultaneously without slowing down the system, while the 20 threads allow a basic ordered sequence of instructions to be passed through or processed by a single CPU core. This processor also supports up to 128GB of dual-channel DDR4-2933 RAM and utilizes 10th-generation technology.

Graphically, the Core i9-10850K uses the integrated Intel UHD Graphics 630 chipset, which has a base frequency of 350 MHz and a dynamic frequency of 1.2 GHz. If you need even more performance, this processor is unlocked, which lets you overclock the processor over its maximum speed. However, this is not recommended, as it will void the limited 3-year warranty.

Please note that this processor does not include a heatsink or fan and requires a separately-sold CPU cooling solution.

Features

Performance	
Number of Cores	10
Number of Threads	20
Base Clock Speed	3.6 GHz
Maximum Boost Speed	5.2 GHz
L3 Cache	
LS Cache	20 MB
Memory Support	20 MB
	20 MB 128 GB
Memory Support	

Channel Architecture	C	Dual Channel
Maximum Memory Bandwid	th 4	5.8 GB/s
Power		
Thermal Design Power (TDP))	125 W
Included Thermal Solution		None
Maximum Temperature		212°F / 100°C
Thermal Monitoring Technol	ogies	Yes
Technology		
AES Support Yes		
Extension AVX 2.0, SS	AVX 2.0, SSE 4.1/4.2	
Instruction Set 64-Bit	64-Bit	
Virtualization Yes: Intel V	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 Suppo	rt	4096 x 2304 at 60 Hz
Supported APIs		DirectX: 12 OpenGL: 4.5
Number of Displays		3
Maximum Shared Video Mer	nory	64 GB
Output Support		eDP, DisplayPort, HDMI
Base Clock Speed		350 MHz
Maximum Boost Speed		1.2 GHz
Intel		
Optane Memory Support	Yes	
vPro Support	No	
Performance Technologies	Нуре	er-Threading, SpeedStep, Turbo Boost 2.0, Turbo Boost Max 3.0
Security Technologies	Device Protection with Boot Guard, Execute Disable Bit, Identity Protection, OS Guard, Secure Key, Software Guard Extensions	
Video Technologies	Clear Video, Clear Video HD, InTru 3D, Quick Sync Video	

Specifications

CPU Model	Intel Core i9-10850K
CPU Socket	LGA 1200
Manufacturing Process	14 nm
Maximum CPU Configuration	15
Maximum Number of PCIe Lanes	16 (Revision 3.0)
Unlocked	Yes

Additional Information

Brand	Intel
SKU	BX-8070110850K
Weight	0.2000
Compatibilty	Intel LGA 1200
Series	Core i9
Cores	10
Core Name	Comet Lake
Operating Frequency	3.5 GHz
Hyper Threading Support	Yes
Threads	20
Thermal Design Power	125W
Vendor SKU/EAN	735858459273

