

Intel Core i9-10850K processor 3.6 GHz 20 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8070110850K

Product name : i9-10850K

Intel Core i9-10850K Processor (20MB Cache, up to 5.2 GHz)

Intel Core i9-10850K. Processor family: Intel® Core™ i9, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel® UHD Graphics 630, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Max Technology 3.0 frequency: 5.1 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5 GHz, Intel® Thermal Velocity Boost Temperature: 70 °C





Processor Features Processor manufacturer * Intel Embedded options available x PCG 2015D Processor generation 10th gen Intel® Core[™] i9 Thermal solution specification i9-10850K 3.0 Processor model * PCI Express CEM revision Processor base frequency * 3.6 GHz **Export Control Classification** 5A992C Number (ECCN) Processor family Intel® Core[™] i9 **Commodity Classification** 10 Processor cores * G077159 Automated Tracking System Processor socket * LGA 1200 (Socket H5) (CCATS) Component for PC **Processor special features** Processor lithography * 14 nm Intel® Hyper Threading Technology 20 Processor threads . (Intel® HT Technology) System bus rate 8 GT/s Intel® Identity Protection Processor operating modes * 64-bit 1 Technology (Intel® IPT) Processor boost frequency 5.2 GHz Intel® Turbo Boost Technology 2.0 20 MB Processor cache Intel® Quick Sync Video Technology 🗸 Smart Cache Processor cache type Intel[®] InTru[™] 3D Technology 1 Thermal Design Power (TDP) 125 W Intel[®] Clear Video HD Technology Box * (Intel® CVT HD) 1 Configurable TDP-down frequency 3.3 GHz Intel® AES New Instructions (Intel® AES-NI) Cooler included * X Enhanced Intel SpeedStep Configurable TDP-down 95 W Technology Generation 10th Generation Intel Trusted Execution Technology × Memory bandwidth supported by 45.8 GB/s Intel® Thermal Velocity Boost processor (max) Intel® Turbo Boost Max Technology Processor codename Comet Lake 5.1 GHz 3.0 frequency Processor ARK ID 205904 Intel® Turbo Boost Technology 2.0 5 GHz frequency Memory Intel® Transactional Maximum internal memory × 128 GB Synchronization Extensions supported by processor Intel® Thermal Velocity Boost Memory types supported by 70 °C DDR4-SDRAM Temperature processor Intel® Thermal Velocity Boost Memory clock speeds supported by 5.2 GHz 2933 MHz Frequency processor Intel VT-x with Extended Page Memory channels * Dual-channel Tables (EPT) ECC × Intel® Secure Key Graphics Intel Stable Image Platform Program × (SIPP) On-board graphics card * 1 Intel® OS Guard Discrete graphics card * × Intel Clear Video Technology 1 Intel® UHD Graphics 630 On-board graphics card model * Intel Software Guard Extensions Maximum on-board graphics card 64 GB (Intel SGX) memory

Graphics		Processor special features	
On-board graphics card base	350 MHz	Intel 64	1
frequency On-board graphics card dynamic		Intel Virtualization Technology (VT- x)	1
frequency (max)	1200 MHz	Intel Virtualization Technology for	
Number of displays supported (on-	3	Directed I/O (VT-d)	1
board graphics) On-board graphics card 4K support	1	Intel Turbo Boost Max Technology 3.0	1
On-board graphics card DirectX version	12.0	Intel® Optane [™] Memory Ready	1
		Intel® Boot Guard	4
On-board graphics card OpenGL version	4.5	Intel® vPro [™] Platform Eligibility	×
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Operational conditions	
		Tjunction	100 °C
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Technical details	
		Target market	Gaming, Content Creation
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Launch date	Q3'20
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096 x 2304@60Hz
		Product type	Processor
On-board graphics card refresh rate		Status	Launched
at maximum resolution (eDP -	60 Hz	Maximum memory	128 GB
Integrated Flat Panel) On-board graphics card refresh rate		Supported memory types	DDR4-SDRAM
at maximum resolution (HDMI)	30 Hz	Bus speed	8 GT/s
On-board graphics card ID	0x9BC5	Maximum graphics card memory Processor ID	64 GB 0x9BC5
Discrete graphics card model *	Not available		0,29000
Features		Logistics data	
Execute Disable Bit	1	Harmonized System (HS) code	85423119
Idle States	4	Packaging data	
Thermal Monitoring Technologies	4	Package type	Retail box
Market segment	Desktop	Weight & dimensions	
Maximum number of PCI Express lanes	16	Processor package size	37.5 x 37.5 mm
PCI Express slots version	3.0	Other features	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum internal memory	128 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0		
Scalability	15		
CPU configuration (max)	1		



5032037198844



5032037459273



5032037198851

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.