

Intel Core i7-11700K processor 3.6 GHz 16 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code:
BX8070811700K

Product name : i7-11700K



Intel Core i7-11700K Processor (16MB Cache, up to 5 GHz)

Intel Core i7-11700K. Processor family: Intel® Core™ i7, 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 750, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express configurations: 1x16+1x4, 2x8+1x4, 1x8+3x4. Intel® Turbo Boost Max Technology 3.0 frequency: 5 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.9 GHz



Processor		Features	
Processor manufacturer *	Intel	PCI Express slots version	4.0
Processor generation	11th gen Intel® Core™ i7	PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4
Processor model *	i7-11700K	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Processor base frequency *	3.6 GHz	Scalability	1S
Processor family *	Intel® Core™ i7	CPU configuration (max)	1
Processor cores *	8	Embedded options available	✗
Processor socket *	LGA 1200 (Socket H5)	Export Control Classification Number (ECCN)	5A992CN3
Component for	PC	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor lithography *	14 nm	Processor special features	
Processor threads	16	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	8 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	5 GHz	Intel® Quick Sync Video Technology	✓
Processor cache	16 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	125 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Box *	✓	Enhanced Intel SpeedStep Technology	✓
Configurable TDP-down frequency	3.1 GHz	Intel Trusted Execution Technology	✓
Configurable TDP-down	95 W	Intel® Thermal Velocity Boost	✗
Memory bandwidth supported by processor (max)	50 GB/s	Intel® Turbo Boost Max Technology 3.0 frequency	5 GHz
Processor ARK ID	212047	Intel® Turbo Boost Technology 2.0 frequency	4.9 GHz
Memory		Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
Maximum internal memory supported by processor	128 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Secure Key	✓
Memory clock speeds supported by processor	3200 MHz	Intel Stable Image Platform Program (SIPP)	✓
Memory channels *	Dual-channel	Intel® OS Guard	✓
ECC	✗	Intel Clear Video Technology	✓
Memory bandwidth (max)	50 GB/s	Intel Software Guard Extensions (Intel SGX)	✗
Graphics		Intel 64	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗		
On-board graphics card model *	Intel UHD Graphics 750		
Maximum on-board graphics card memory	64 GB		
On-board graphics card base frequency	350 MHz		
On-board graphics card dynamic frequency (max)	1300 MHz		

Graphics		Processor special features	
Number of displays supported (on-board graphics)	3	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card 4K support	✓	Intel Turbo Boost Max Technology 3.0	✓
On-board graphics card OpenGL version	4.5	Intel® Optane™ Memory Ready	✓
On-board graphics card maximum resolution (DisplayPort)	5120 x 3200 pixels	Intel® Boot Guard	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® vPro™ Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Technical details	
On-board graphics card ID	0x4C8A	Target market	Gaming, Content Creation
Discrete graphics card model *	Not available	Launch date	Q1'21
Number of execution units	32	Status	Launched
Features		Supported memory types	DDR4-SDRAM
Execute Disable Bit	✓	Logistics data	
Idle States	✓	Harmonized System (HS) code	85423119
Thermal Monitoring Technologies	✓	Packaging data	
Market segment	Desktop	Package type	Retail box
Use conditions	PC/Client/Tablet	Weight & dimensions	
Maximum number of PCI Express lanes	20	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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