

Intel Core i5-11500 processor 2.7 GHz 12 MB Smart Cache Box

Brand : Intel

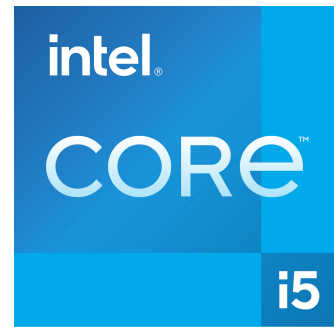
Product family: Core

Product code: BX8070811500

Product name : i5-11500

Intel Core i5-11500 Processor (12MB Cache, up to 4.6 GHz)

Intel Core i5-11500. Processor family: Intel® Core™ i5, 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 Technology 2.0 frequency: 4.6 GHz



Processor		Features	
Processor manufacturer *	Intel	PCI Express slots version	4.0
Processor generation	11th gen Intel® Core™ i5	PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4
Processor model *	i5-11500	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512
Processor base frequency *	2.7 GHz	Scalability	1S
Processor family *	Intel® Core™ i5	CPU configuration (max)	1
Processor cores *	6	Embedded options available	✗
Processor socket *	LGA 1200 (Socket H5)	Harmonized System (HS) code	85423119
Component for	PC	Export Control Classification Number (ECCN)	5A992CN3
Processor lithography *	14 nm	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor threads	12		
System bus rate	8 GT/s		
Processor operating modes *	64-bit		
Processor boost frequency	4.6 GHz		
Processor cache	12 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	65 W		
Box *	✓		
Memory bandwidth supported by processor (max)	50 GB/s		
Processor ARK ID	212277		
Memory		Processor special features	
Maximum internal memory supported by processor	128 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory clock speeds supported by processor	3200 MHz	Intel® Turbo Boost Technology	2.0
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
ECC	✗	Intel® InTru™ 3D Technology	✓
Memory bandwidth (max)	50 GB/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Graphics		Intel® AES New Instructions (Intel® AES-NI)	✓
On-board graphics card *	✓	Enhanced Intel SpeedStep Technology	✓
Discrete graphics card *	✗	Intel Trusted Execution Technology	✓
On-board graphics card model *	Intel UHD Graphics 750	Intel® Thermal Velocity Boost	✗
Maximum on-board graphics card memory	64 GB	Intel® Turbo Boost Technology 2.0 frequency	4.6 GHz
On-board graphics card base frequency	350 MHz	Intel® Gaussian & Neural Accelerator (Intel® GNA) 2.0	✓
On-board graphics card dynamic frequency (max)	1300 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel Stable Image Platform Program (SIPP)	✓
		Intel® OS Guard	✓
		Intel Clear Video Technology	✓
		Intel Software Guard Extensions (Intel SGX)	✗
		Intel 64	✓

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



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