

Intel Core i5-10500 processor 3,1 GHz 12 MB Smart Cache Box

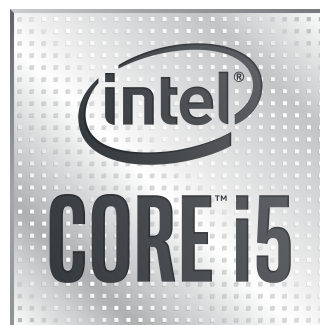
Merk : Intel

Productfamilie: Core

Artikelcode: BX8070110500

Productnaam : i5-10500

Intel Core i5-10500. Processorfamilie: Intel® Core™ i5, Processor socket: LGA 1200 (Socket H5), Processor lithografie: 14 nm. Geheugen kanaal: Dubbelkanaals, Maximaal intern geheugen ondersteund door processor: 128 GB, Geheugentypen ondersteund door processor: DDR4-SDRAM. On-board graphics adapter model: Intel® UHD Graphics 630, Maximaal geheugen ingebouwde grafische adapter: 64 GB, Basisfrequentie ingebouwde grafische adapter: 350 MHz. Marktsegment: Desktop, PCI Express configuraties: 1x16, 2x8, 1x8+2x4, Ondersteunde instructie sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4,5 GHz



Processor		Kenmerken	
Processorfabrikant *	Intel	CPU configuratie (max)	1
Processorgeneratie	Intel® 10de generatie Core™ i5	Ingebouwde opties beschikbaar	✗
Processormodel *	i5-10500	Thermal solution specificatie	PCG 2015C
Basisfrequentie processor *	3,1 GHz	PCI Express CEM revisie	3.0
Processorfamilie *	Intel® Core™ i5	Export Control Classification Number (ECCN)	5A992C
Aantal processorkernen *	6	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor socket *	LGA 1200 (Socket H5)	Processor speciale functies	
Component voor	PC	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithografie *	14 nm	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor aantal threads	12	Intel® Turbo Boost Technology	2.0
Systeembus	8 GT/s	Intel® Quick Sync Video Technology	✓
Processor operating modes *	64-bit	Intel® InTru™ 3D Technology	✓
Maximale turbofrequentie van processor	4,5 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	12 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	65 W	Intel® Trusted Execution Technology	✓
Box *	✓	Intel® Thermal Velocity Boost	✗
Inclusief koeler *	✓	Intel® Turbo Boost Technology 2.0 frequency	4,5 GHz
Generatie	10th Generation	Intel® Transactional Synchronization Extensions	✗
Geheugenbandbreedte ondersteund door de processor (max)	41,6 GB/s	Intel® VT-x with Extended Page Tables (EPT)	✓
Codenaam processor	Comet Lake	Intel® Secure Key	✓
ARK ID processor	199277	Intel® Stable Image Platform Program (SIPP)	✓
Geheugen		Intel® OS Guard	✓
Maximaal intern geheugen ondersteund door processor	128 GB	Intel® Clear Video-technologie	✓
Geheugentypen ondersteund door processor	DDR4-SDRAM	Intel® Software Guard Extensions (Intel® SGX)	✓
Klokgeheugen-snelheden ondersteund door processor	2666 MHz	Intel® 64	✓
Geheugen kanaal *	Dubbelkanaals	Intel® Virtualization Technology (VT-x)	✓
ECC	✗		
Grafisch			
Ingebouwde grafische adapter *	✓		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Intel® UHD Graphics 630		
Maximaal geheugen ingebouwde grafische adapter	64 GB		
Basisfrequentie ingebouwde grafische adapter	350 MHz		

Grafisch		Processor speciale functies	
Graphics on-board -adapter dynamische frequentie (max)	1150 MHz	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Aantal displays ondersteund (door on-board grafische adapter)	3	Intel® Turbo Boost Max Technology 3.0	✗
4K-ondersteuning	✓	Intel® Optane™ Memory Ready	✓
On-board grafische adapter DirectX-versie	12.0	Intel® Boot Guard	✓
On-board grafische adapter OpenGL versie	4.5	Intel® vPro™ Platform Eligibility	✓
Graphics aan boord maximale resolutie adapter (DisplayPort)	4096 x 2304 Pixels	Eisen aan de omgeving	
Maximale resolutie (eDP - Integrated Flat Panel)	4096 x 2304 Pixels	Tjunction	100 °C
Maximale resolutie ingebouwde grafische adapter (HDMI)	4096 x 2160 Pixels	Technische details	
Grafische adapter refresh rate on-board bij maximale resolutie (DisplayPort)	60 Hz	Doelgroep	Gaming
Refresh rate op maximale resolutie (eDP - Integrated Flat Panel)	60 Hz	Lanceringsdatum	Q2'20
Verversingsfrequentie ingebouwde grafische adapter bij maximale resolutie (HDMI)	30 Hz	Maximale resolutie & verversingsfrequentie (DisplayPort)	4096 x 2304@60Hz
On-board grafische adapter ID	0x9BC8	Type product	Processor
Discreet grafische adapter model *	Niet beschikbaar	Status	Launched
Kenmerken		Maximaal geheugen	128 GB
Execute Disable Bit	✓	Ondersteunde geheugen types	DDR4-SDRAM
Idle States	✓	Bussnelheid	8 GT/s
Thermal Monitoring Technologies	✓	Maximaal geheugen grafische adapter	64 GB
Marktsegment	Desktop	Processor-id	0x9BC8
Maximaal aantal PCI Express-lijnen	16	Logistieke gegevens	
PCI Express slots versie	3.0	Code geharmoniseerd systeem (HS)	85423119
PCI Express configuraties	1x16, 2x8, 1x8+2x4	Verpakking	
Ondersteunde instructie sets	SSE4.1, SSE4.2, AVX 2.0	Type verpakking	Retaildoos
Schaalbaarheid	1S	Gewicht en omvang	
		Verpakkingsgrootte processor	37.5 x 37.5 mm
		Overige specificaties	
		Maximum intern geheugen	128 GB



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