

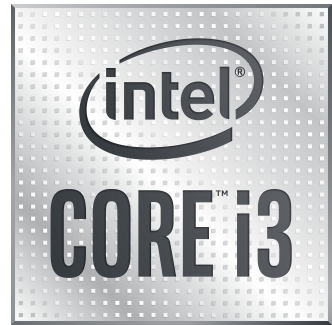
Intel Core i3-10320 processor 3.8 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX8070110320

Product name : i3-10320



Intel Core i3-10320 Processor (8MB Cache, up to 4.6 GHz)
 Intel Core i3-10320. Processor family: Intel® Core™ i3, 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 Technology 2.0 frequency: 4.6 GHz



Processor		Features	
Processor manufacturer *	Intel	Scalability	1S
Processor generation	10th gen Intel® Core™ i3	CPU configuration (max)	1
Processor model *	i3-10320	Embedded options available	✗
Processor base frequency *	3.8 GHz	Thermal solution specification	PCG 2015C
Processor family *	Intel® Core™ i3	PCI Express CEM revision	3.0
Processor cores *	4	Export Control Classification Number (ECCN)	5A992C
Processor socket *	LGA 1200 (Socket H5)	Commodity Classification Automated Tracking System (CCATS)	G077159
Component for	PC	Processor special features	
Processor lithography *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	2.0
Processor operating modes *	64-bit	Intel® Quick Sync Video Technology	✓
Processor boost frequency	4.6 GHz	Intel® InTru™ 3D Technology	✓
Processor cache	8 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	65 W	Enhanced Intel SpeedStep Technology	✓
Box *	✓	Intel Trusted Execution Technology	✗
Cooler included *	✓	Intel® Thermal Velocity Boost	✗
Generation	10th Generation	Intel® Turbo Boost Technology 2.0 frequency	4.6 GHz
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Transactional Synchronization Extensions	✗
Processor codename	Comet Lake	Intel VT-x with Extended Page Tables (EPT)	✓
Processor ARK ID	199280	Intel® Secure Key	✓
Memory		Intel Stable Image Platform Program (SIPP)	✗
Maximum internal memory supported by processor	128 GB	Intel® OS Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel Clear Video Technology	✓
Memory clock speeds supported by processor	2666 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory channels *	Dual-channel	Intel 64	✓
ECC	✗	Intel Virtualization Technology (VT-x)	✓
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
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		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of displays supported (on-board graphics)	3	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card 4K support	✓	Intel® Optane™ Memory Ready	✓
On-board graphics card DirectX version	12.0	Intel® Boot Guard	✓
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	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Tjunction	100 °C
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Technical details	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Launch date	Q2'20
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096 x 2304@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Product type	Processor
On-board graphics card ID	0x9BC8	Status	Launched
Discrete graphics card model *	Not available	Maximum memory	128 GB
Features		Supported memory types	DDR4-SDRAM
Execute Disable Bit	✓	Bus speed	8 GT/s
Idle States	✓	Maximum graphics card memory	64 GB
Thermal Monitoring Technologies	✓	Processor ID	0x9BC8
Market segment	Desktop	Logistics data	
Maximum number of PCI Express lanes	16	Harmonized System (HS) code	85423119
PCI Express slots version	3.0	Packaging data	
PCI Express configurations	1x16, 2x8, 1x8+2x4	Package type	Retail box
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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