

Intel Core i3-10100 processor 3.6 GHz 6 MB Smart Cache Box

Brand : Intel

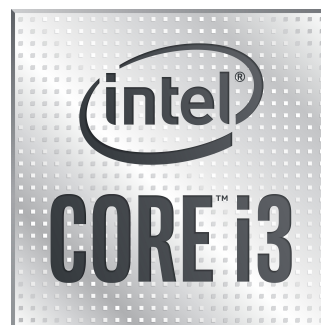
Product family: Core

Product code: BX8070110100

Product name : i3-10100

Intel Core i3-10100 Processor (6MB Cache, up to 4.3 GHz)

Intel Core i3-10100. 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: 4.3 GHz



Processor		Features	
Processor manufacturer *	Intel	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor generation	10th gen Intel® Core™ i3	Scalability	1S
Processor model *	i3-10100	CPU configuration (max)	1
Processor base frequency *	3.6 GHz	Embedded options available	✗
Processor family *	Intel® Core™ i3	Thermal solution specification	PCG 2015C
Processor cores *	4	PCI Express CEM revision	3.0
Processor socket *	LGA 1200 (Socket H5)	Harmonized System (HS) code	85423119
Component for	PC	Export Control Classification Number (ECCN)	5A992C
Processor lithography *	14 nm	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor threads	8	Processor special features	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	4.3 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	6 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
Thermal Design Power (TDP)	65 W	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Box *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Cooler included *	✓	Enhanced Intel SpeedStep Technology	✓
Generation	10th Generation	Intel Trusted Execution Technology	✗
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Thermal Velocity Boost	✗
Processor codename	Comet Lake	Intel® Turbo Boost Technology 2.0 frequency	4.3 GHz
Processor ARK ID	199283	Intel® Transactional Synchronization Extensions	✗
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory supported by processor	128 GB	Intel® Secure Key	✓
Memory types supported by processor	DDR4-SDRAM	Intel Stable Image Platform Program (SIPP)	✗
Memory clock speeds supported by processor	2666 MHz	Intel® OS Guard	✓
Memory channels *	Dual-channel	Intel Clear Video Technology	✓
ECC	✗	Intel Software Guard Extensions (Intel SGX)	✓
Graphics		Intel 64	✓
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)	1100 MHz	Intel Virtualization Technology (VT-x)	✓
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 DirectX version	12.0	Intel® Optane™ Memory Ready	✓
On-board graphics card OpenGL version	4.5	Intel® Boot Guard	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Operational conditions	
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Technical details	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Launch date	Q2'20
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Maximum resolution & refresh rate (DisplayPort)	4096 x 2304@60Hz
On-board graphics card ID	0x9BC8	Product type	Processor
Discrete graphics card model *	Not available	Status	Launched
Features		Maximum memory	128 GB
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Idle States	✓	Bus speed	8 GT/s
Thermal Monitoring Technologies	✓	Maximum graphics card memory	64 GB
Market segment	Desktop	Processor ID	0x9BC8
Maximum number of PCI Express lanes	16	Packaging data	
PCI Express slots version	3.0	Package type	Retail box
PCI Express configurations	1x16, 2x8, 1x8+2x4	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



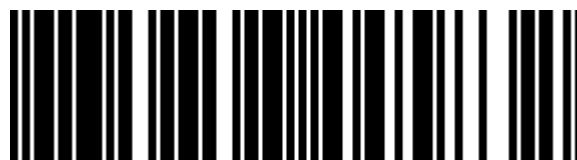
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Publication date: 17-JAN-2023. Prints or copies of Information are only valid on the printed Publication date