

Intel Core i3-8100T processor 3.1 GHz 6 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8068403377415

Product name : i3-8100T



Intel® Core™ i3-8100T Processor
(6M Cache, 3.10 GHz)

Intel Core i3-8100T. Processor family: Intel® Core™ i3, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 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 outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Processor package size: 37.5 x 37.5 mm

Processor		Features	
Processor manufacturer *	Intel	PCI Express CEM revision	3.0
Processor generation	8th gen Intel® Core™ i3	Export Control Classification Number (ECCN)	5A992C
Processor model *	i3-8100T	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor base frequency *	3.1 GHz	Processor special features	
Processor family *	Intel® Core™ i3	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor cores *	4	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Turbo Boost Technology	✗
Component for	PC	Intel® Quick Sync Video Technology	✓
Processor lithography *	14 nm	Intel® InTru™ 3D Technology	✓
Processor series	Intel Core i3-8100 Desktop series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel® Smart Cache	✓
System bus rate	8 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor cache	6 MB	Intel Trusted Execution Technology	✗
Processor cache type	Smart Cache	Intel® Memory Protection Extensions (Intel® MPX)	✓
Thermal Design Power (TDP)	35 W	Intel® Transactional Synchronization Extensions	✗
Box *	✗	Intel Enhanced Halt State	✓
Configurable TDP-down frequency	2.4 GHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Cooler included *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Configurable TDP-down	25 W	Intel® Secure Key	✓
Generation	8th Generation	Intel TSX-NI	✗
Stepping	B0	Intel Stable Image Platform Program (SIPP)	✗
Bus type	DMI3	Intel® OS Guard	✓
Memory bandwidth supported by processor (max)	37.5 GB/s	Intel Clear Video Technology	✓
Processor codename	Coffee Lake	Intel Software Guard Extensions (Intel SGX)	✓
Processor code	SR3Y8	Intel 64	✓
Processor ARK ID	129944	Intel Identity Protection Technology version	1.00
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2400 MHz		
Memory channels *	Dual-channel		
ECC	✓		
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		

Graphics		Processor special features	
On-board graphics card model *	Intel® UHD Graphics 630	Intel Secure Key Technology version	1.00
Maximum on-board graphics card memory	64 GB	Intel Stable Image Platform Program (SIPP) version	0.00
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	350 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Intel TSX-NI version	0.00
Number of displays supported (on-board graphics)	3	Intel® Optane™ Memory Ready	✓
On-board graphics card 4K support	✓	Intel® Boot Guard	✓
On-board graphics card DirectX version	12.0	Intel® vPro™ Platform Eligibility	✗
On-board graphics card OpenGL version	4.5	Operational conditions	
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Tjunction	82 °C
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Technical details	
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Bus bandwidth	8
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Launch date	Q2'18
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card ID	0x3E91	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
Discrete graphics card model *	Not available	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
Features		Processor cache	6144 KB
Execute Disable Bit	✓	Product type	Processor
Idle States	✓	Status	Launched
Thermal Monitoring Technologies	✓	Maximum memory	64 GB
Market segment	Desktop	Processor brand name	8th Gen Intel Core i3 8th Gen Intel Core i3 Processor
Maximum number of PCI Express lanes	16	Supported memory types	DDR4-SDRAM
PCI Express slots version	3.0	Last change	63903513
PCI Express configurations	1x16, 2x8, 1x8+2x4	Product family	Intel Core Processors
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Bus speed	8 GT/s
Scalability	1S	Maximum graphics card memory	64 GB
CPU configuration (max)	1	Processor ID	0x3E91
Embedded options available	✓	Logistics data	
Thermal solution specification	PCG 2015A	Harmonized System (HS) code	85423119
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	eDP/DP/HDMI/DVI



0715663075103



715663075103



8592978095505

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.