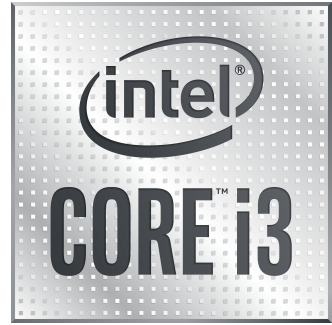# Intel Core i3-10105F processor 3.7 GHz 6 MB Smart Cache Box

Brand : Intel   **Product family:** Core   **Product code:** BX8070110105F

Product name : i3-10105F

Intel Core i3-10105F Processor (6MB Cache, up to 4.4 GHz)
Intel Core i3-10105F. 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. Market segment: Desktop, Use
conditions: PC/Client/Tablet, PCI Express configurations: 1x16, 2x8, 1x8+2x4. Intel® Turbo Boost
Technology 2.0 frequency: 4.4 GHz. Package type: Retail box

Processor

Processor manufacturer *	Intel
Processor generation	10th gen Intel® Core™ i3
Processor model *	i3-10105F
Processor base frequency *	3.7 GHz
Processor family *	Intel® Core™ i3
Processor cores *	4
Processor socket *	LGA 1200 (Socket H5)
Component for	PC
Processor lithography *	14 nm
Processor threads	8
System bus rate	8 GT/s
Processor operating modes *	64-bit
Processor boost frequency	4.4 GHz
Processor cache	6 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	65 W
Box *	✔
Memory bandwidth supported by processor (max)	41.6 GB/s
Processor codename	Comet Lake
Processor ARK ID	203474

Memory

Maximum internal memory supported by processor	128 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2666 MHz
Memory channels *	Dual-channel
ECC	✘
Memory bandwidth (max)	41.6 GB/s

Graphics

On-board graphics card *	✘
Discrete graphics card *	✘
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Features

Execute Disable Bit	✔
Idle States	✔

Features

Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✘
Intel® Thermal Velocity Boost	✘
Intel® Turbo Boost Technology 2.0 frequency	4.4 GHz
Intel® Transactional Synchronization Extensions	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel Stable Image Platform Program (SIPP)	✘
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Turbo Boost Max Technology 3.0	✘
Intel® Optane™ Memory Ready	✔
Intel® Boot Guard	✔
Intel® vPro™ Platform Eligibility	✘

Operational conditions

Tjunction	100 °C

Features

Thermal Monitoring Technologies	✔
Market segment	Desktop
Use conditions	PC/Client/Tablet
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Scalability	1S
CPU configuration (max)	1
Embedded options available	✘
Thermal solution specification	PCG 2015C
Harmonized System (HS) code	85423119

Technical details

Launch date	Q1'21
Status	Launched
Supported memory types	DDR4-SDRAM

Packaging data

Package type	Retail box

Weight & dimensions

Processor package size	37.5 x 37.5 mm

Other features

Maximum internal memory	128 GB

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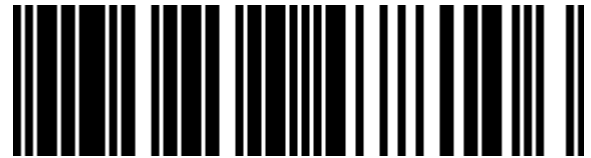
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