



Intel® Core™ i3-8100T Processor

6M Cache, 3.10 GHz

Spec Code

SR3Y8

Ordering Code

CM8068403377415

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

Code Name	Coffee Lake
Essentials	
Vertical Segment	Desktop
Processor Number	i3-8100T
Status	Launched
Launch Date	Q2'18
Lithography	14 nm
Recommended Customer Price	\$117.00
Performance	
# of Cores	4
# of Threads	4
Processor Base Frequency	3.10 GHz
Cache	6 MB SmartCache
Bus Speed	8 GT/s DMI3
TDP	35 W
Configurable TDP-down Frequency	2.40 GHz
Configurable TDP-down	25 W
Supplemental Information	
Embedded Options Available	Yes
Datasheet	Link
Memory Specifications	
Max Memory Size (dependent on memory type)	64 GB
Memory Types	DDR4-2400
Max # of Memory Channels	2
Max Memory Bandwidth	37.5 GB/s
ECC Memory Supported ‡	Yes
Processor Graphics	
Processor Graphics ^{‡}	Intel® UHD Graphics 630

Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.10 GHz
Graphics Video Max Memory	64 GB
4K Support	Yes, at 60Hz
Max Resolution (HDMI 1.4)‡	4096x2304@24Hz
Max Resolution (DP)‡	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡	4096x2304@60Hz
DirectX* Support	12
OpenGL* Support	4.5
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Clear Video HD Technology	Yes
Intel® Clear Video Technology	Yes
# of Displays Supported ‡	3
Device ID	0x3E91
Expansion Options	
Scalability	1S Only
PCI Express Revision	3
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16
Package Specifications	
Sockets Supported	FCLGA1151
Max CPU Configuration	1
Thermal Solution Specification	PCG 2015A (35W)
T_{JUNCTION}	82°C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Optane™ Memory Supported ‡	Yes
Intel® Turbo Boost Technology	No
Intel® vPro™ Technology ‡	No
Intel® Hyper-Threading Technology ‡	No
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
Intel® TSX-NI	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes

Thermal Monitoring Technologies	Yes
Intel® Identity Protection Technology ‡	Yes
Intel® Stable Image Platform Program (SIPP)	No
Security & Reliability	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes
Intel® Boot Guard	Yes

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