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Intel® Core™ i3-8100 Processor

6M Cache, 3.60 GHz

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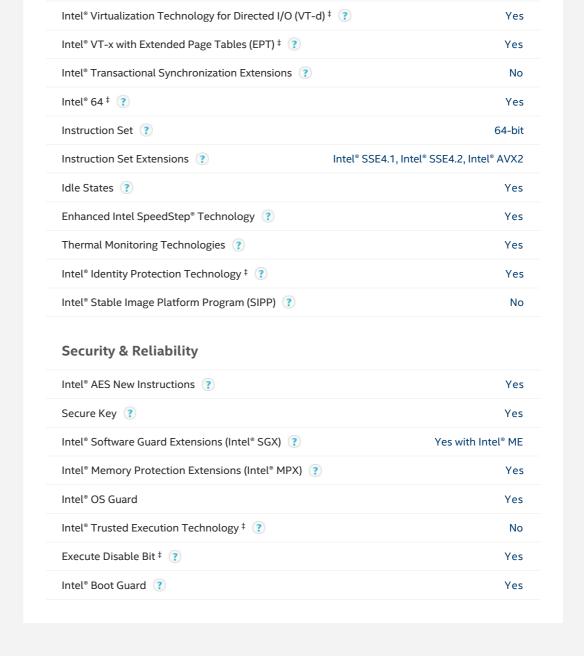
Essentials	Export specification
Product Collection	8th Generation Intel® Core™ i3 Processors
Code Name	Products formerly Coffee Lake
Vertical Segment	Desktop
Processor Number	i3-8100
Status	Launched
Launch Date ?	Q4'17
Lithography 🔞	14 nm
Use Conditions ? Embe	dded Broad Market Commercial Temp, PC/Client/Tablet
Recommended Customer Price ?	
Performance Specifications # of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	3.60 GHz
Cache ?	6 MB Intel® Smart Cache
Bus Speed ?	8 GT/s
TDP ?	65 W
Supplemental Information	
Embedded Options Available ?	Yes
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memo	ory type) ? 64 GB
Memory Types ?	DDR4-2400

Max # of Memory Channels ?

2



Max Memory Bandwidth ?	37.5 GB/
ECC Memory Supported ‡ 🔞	Ye
Processor Graphics	
Processor Graphics ‡ ?	Intel® UHD Graphics 63
Graphics Base Frequency ?	350 MH
Graphics Max Dynamic Frequency 🔞	1.10 GH
Graphics Video Max Memory 🔞	64 G
4K Support ?	Yes, at 60H
Max Resolution (HDMI 1.4)‡ 🔞	4096x2304@24H
Max Resolution (DP)‡ 👔	4096x2304@60H
Max Resolution (eDP - Integrated Flat Panel)‡ 🕡	4096x2304@60H
DirectX* Support ?	1
OpenGL* Support ?	4.
Intel® Quick Sync Video 🔞	Ye
Intel® InTru™ 3D Technology ?	Ye
Intel® Clear Video HD Technology 🔞	Ye
Intel® Clear Video Technology 🔞	Ye
# of Displays Supported ‡	
Device ID	0x3E91/x9
Expansion Options	
Scalability	1S Onl
PCI Express Revision ?	3.
PCI Express Configurations ‡ ?	Up to 1x16, 2x8, 1x8+2x
Max # of PCI Express Lanes ?	1
Package Specifications	
Sockets Supported ?	FCLGA115
Max CPU Configuration	
Thermal Solution Specification ?	PCG 2015C (65W
T _{JUNCTION} ?	100°0
Package Size	37.5mm x 37.5mr
Advanced Technologies	
Intel® Optane™ Memory Supported ‡ ?	Ye
Intel® Turbo Boost Technology ‡ 💽	N
Intel vPro® Platform Eligibility ‡ 🕜	N
Intel® Hyper-Threading Technology ‡ 🔞	N



More support options for Intel® Core™ i3-8100 Processor (6M Cache, 3.60 GHz)





Downloads and Software



Support Community



Warranty and Replacement



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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.



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