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Intel[®] Core[™] i3-8300 Processor

Processor Graphics

8M Cache, 3.70 GHz

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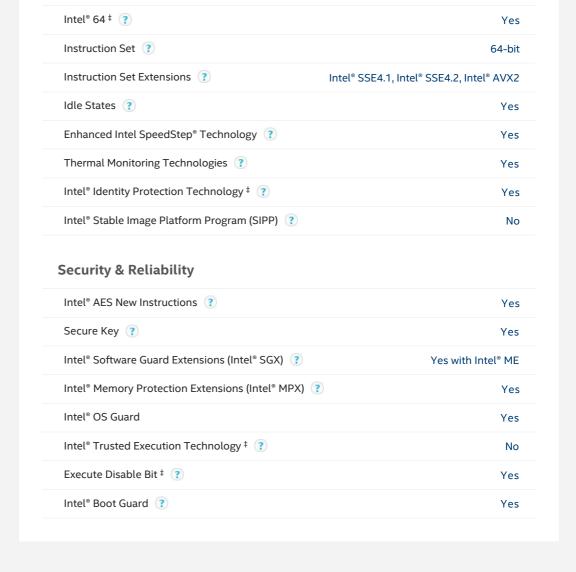
Ordering and Compliance

Compatible products

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Essentials	Export specificati
Product Collection	8th Generation Intel® Core™ i3 Processors
Code Name	Products formerly Coffee Lake
Vertical Segment	Desktop
Processor Number	i3-8300
Status	Launched
Launch Date 🔞	Q2'18
Lithography ?	14 nm
Recommended Customer Price ?	-
Performance	
# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	3.70 GHz
Cache ?	8 MB SmartCache
Bus Speed ?	8 GT/s DMI3
TDP ?	62 W
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
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

Processor Graphics ‡ 👔	Intel® UHD Graphics 6
Graphics Base Frequency ?	350 M
Graphics Max Dynamic Frequency 🔞	1.15 G
Graphics Video Max Memory ?	64
4K Support 🔞	Yes, at 60
Max Resolution (HDMI 1.4)‡ ?	4096x2304@24
Max Resolution (DP)‡ ?	4096x2304@60
Max Resolution (eDP - Integrated Flat Panel)‡ 🔞	4096x2304@60
DirectX* Support ?	
OpenGL* Support ?	4
Intel® Quick Sync Video 💿	Υ
Intel® InTru™ 3D Technology ?	Υ
Intel® Clear Video HD Technology 🔞	Υ
Intel® Clear Video Technology ?	Υ
# of Displays Supported [‡]	
Device ID	0x3E
PCI Express Configurations ‡ ?	Up to 1x16, 2x8, 1x8+2
Expansion Options Scalability	1S O
PCI Express Configurations †	Up to 1v16 2v0 1v0 1
Max # of PCI Express Lanes ?	Up to 1x16, 2x8, 1x8+2
Package Specifications	
Package Specifications Sockets Supported ?	FCLGA11
	FCLGA11
Sockets Supported ?	
Sockets Supported ? Max CPU Configuration	PCG 2015C (65
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ?	PCG 2015C (65
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ?	PCG 2015C (65' 100 37.5mm x 37.5m
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ? Package Size Low Halogen Options Available	PCG 2015C (65' 100 37.5mm x 37.5m
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ? Package Size Low Halogen Options Available Advanced Technologies	PCG 2015C (65 100 37.5mm x 37.5m
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Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ? Package Size Low Halogen Options Available Advanced Technologies Intel® Optane™ Memory Supported ‡ ? Intel® Turbo Boost Technology ‡ ?	PCG 2015C (65' 100 37.5mm x 37.5m
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ? Package Size Low Halogen Options Available Advanced Technologies Intel® Optane™ Memory Supported ‡ ? Intel® Turbo Boost Technology ‡ ? Intel® vPro™ Platform Eligibility ‡ ? Intel® Hyper-Threading Technology ‡ ?	FCLGA11 PCG 2015C (65' 100 37.5mm x 37.5m Y
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ? Package Size Low Halogen Options Available Advanced Technologies Intel® Optane™ Memory Supported † ? Intel® Turbo Boost Technology † ? Intel® vPro™ Platform Eligibility † ? Intel® Hyper-Threading Technology † ? Intel® Virtualization Technology (VT-x) † ?	PCG 2015C (65' 100 37.5mm x 37.5m Y



More support options for Intel® Core™ i3-8300 Processor (8M Cache, 3.70 GHz)





Downloads and Software



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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 Arrow.com. **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 Arrow.com. **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 Arrow.com. **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 Arrow.com. **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 Arrow.com.

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.

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.

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

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.

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

 $\label{thm:complex} \begin{tabular}{ll} Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See $$ www.intel.com/technology/turboboost/ for more information. $$ $$$

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.



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