1.10 GHz





Intel[®] Core[™] i3-7100 Processor

3M Cache, 3.90 GHz



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Product Images

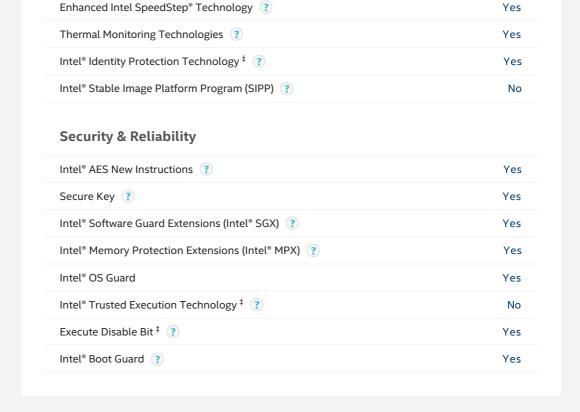
Compatible Products

Downloads and Software

Essentials	Export specification
Product Collection	7th Generation Intel® Core™ i3 Processors
Code Name	Products formerly Kaby Lake
Vertical Segment	Desktop
Processor Number	i3-7100
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	
Performance	
# of Cores ?	2
# of Threads ?	4
Processor Base Frequency ?	3.90 GHz
Cache ?	3 MB SmartCache
Bus Speed ?	8 GT/s DMI3
# of QPI Links ?	0
TDP ?	51 W
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type)	? 64 GB
Memory Types ?	DDR4-2133/2400, DDR3L-1333/1600 @ 1.35V
Max # of Memory Channels ?	2
ECC Memory Supported † 🔞	Yes
Processor Graphics	
Processor Graphics ‡ ?	Intel® HD Graphics 630
Graphics Base Frequency ?	350 MHz

raphics Max Dynamic Frequency ?

Graphics Video Max Memory 💿	64 GI
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 ?	4.5
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	0x591
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 ?	
Sockets Supported ? Max CPU Configuration	
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ?	PCG 2015C (65W
Sockets Supported ? Max CPU Configuration Thermal Solution Specification ? TJUNCTION ?	PCG 2015C (65W
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Sockets Supported ② Max CPU Configuration Thermal Solution Specification ③ TJUNCTION ② Package Size Low Halogen Options Available Advanced Technologies Intel® Optane™ Memory Supported ♣ ③ Intel® Turbo Boost Technology ♣ ② Intel® vPro™ Platform Eligibility ♣ ② Intel® Hyper-Threading Technology ♣ ③ Intel® Virtualization Technology (VT-x) ♣ ② Intel® Virtualization Technology for Directed I/O (VT-d) ♣ ② Intel® VT-x with Extended Page Tables (EPT) ♣ ②	FCLGA115 PCG 2015C (65W 100°C 37.5mm x 37.5mm x 37.5mm X 37.5mm X 37.5mm X Yee MDD: 100°C
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) † ? Intel® Virtualization Technology for Directed I/O (VT-d) † ? Intel® VT-x with Extended Page Tables (EPT) † ? Intel® TSX-NI ?	PCG 2015C (65W 100°C 37.5mm x 37.5mm x 37.5mm x 37.5mm X 9.5mm



More support options for Intel® Core™ i3-7100 Processor (3M Cache, 3.90 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.

"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.

‡ 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.

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.

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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I arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not

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 $constitute\ a\ formal\ pricing\ offer\ from\ Intel.\ Please\ work\ with\ your\ appropriate\ Intel\ representative\ to\ obtain\ a\ formal\ price\ quotation.$

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

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

For benchmarking data see http://www.intel.com/performance.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See $\frac{1}{2} \frac{1}{2} \frac{1}{2$

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



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