

ARK | Compare Intel® Products
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	Intel® Core™ i3-7100 Processor (3M Cache, 3.90 GHz)
Code Name	Kaby Lake
<u>Essentials</u>	
Vertical Segment	Desktop
Processor Number	i3-7100
Status	Launched
Launch Date	Q1'17
Lithography	14 nm
Recommended Customer Price	\$117.00
<u>Performance</u>	
# 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
<u>Supplemental Information</u>	
Embedded Options Available	No
Datasheet	Link
<u>Memory Specifications</u>	
Max Memory Size (dependent on memor	64 GB
Memory Types	DDR4-2133/2400, DDR3L-1333/1600 @ 1.35V
Max # of Memory Channels	2
ECC Memory Supported ‡	Yes
<u>Processor Graphics</u>	
Processor Graphics ^{<small>‡</small>}	Intel® HD 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 Pan	4096x2304@60Hz
DirectX* Support	12
OpenGL* Support	4.4
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	0x5912

<u>Expansion Options</u>	
Scalability	1S Only
PCI Express Revision	3.0
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16
<u>Package Specifications</u>	
Sockets Supported	FCLGA1151
Max CPU Configuration	1
Thermal Solution Specification	PCG 2015C (65W)
T _{JUNCTION}	100°C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS
<u>Advanced Technologies</u>	
Intel® Optane™ Memory Supported ‡	Yes
Intel® Turbo Boost Technology	No
Intel® vPro™ Technology ‡	No
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Direct	Yes
Intel® VT-x with Extended Page Tables (EP	Yes
Intel® TSX-NI	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® Identity Protection Technology ‡	Yes
Intel® Stable Image Platform Program (SIP	No
<u>Security & Reliability</u>	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® Software Guard Extensions (Intel® S	Yes
Intel® Memory Protection Extensions (Int	Yes
Intel® OS Guard	Yes
Execute Disable Bit ‡	Yes
Intel® Boot Guard	Yes