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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Intel® Core™ i3-7101E Processor

3M Cache, 3.90 GHz

Spec Code

SR32Z

Ordering Code

CM8067702867060

## Intel® Core™ i3-7101E Processor (3M Cache, 3.90 GHz)

Code Name	Kaby Lake
<b>Essentials</b>	
Vertical Segment	Desktop
Processor Number	i3-7101E
Status	Launched
Launch Date	Q1'17
Lithography	14 nm
Recommended Customer Price	\$117.00
<b>Performance</b>	
# of Cores	2
# of Threads	4
Processor Base Frequency	3.90 GHz
Cache	3 MB SmartCache
TDP	54 W
<b>Supplemental Information</b>	
<u>Embedded Options Available</u>	<u>Yes</u>
Conflict Free	Yes
Datasheet	<a href="#">Link</a>
<b>Memory Specifications</b>	
Max Memory Size (dependent on memory type)	64 GB
<u>Memory Types</u>	DDR3L-1600, DDR4-2400
Max # of Memory Channels	2
Max Memory Bandwidth	34.1 GB/s

ECC Memory Supported ‡	Yes
<b>Graphics Specifications</b>	
Processor Graphics ‡	Intel® HD Graphics 630
<u>Graphics Base Frequency</u>	<u>350 MHz</u>
Graphics Max Dynamic Frequency	1.10 GHz
Graphics Video Max Memory	64 GB
Graphics Output	eDP/DP/HDMI/DVI
<u>4K Support</u>	<u>Yes, at 60Hz</u>
Max Resolution (HDMI 1.4)‡	4096x2304@30Hz
Max Resolution (DP)‡	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡	4096x2304@60Hz
Max Resolution (VGA)‡	N/A
<u>DirectX* Support</u>	<u>12</u>
OpenGL* Support	4.4
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Clear Video HD Technology	Yes
# of Displays Supported ‡	3
Device ID	0x5902
<b>Expansion Options</b>	
Scalability	1S Only
PCI Express Revision	3.0
PCI Express Configurations ‡	1x16,2x8,1x8+2x4
Max # of PCI Express Lanes	16
<b>Package Specifications</b>	
<u>Sockets Supported</u>	<u>FCLGA1151</u>
Max CPU Configuration	1
T<sub>JUNCTION</sub>	100°C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS
<b>Advanced Technologies</b>	
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 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	SSE4.1/4.2, AVX2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® Identity Protection Technology ‡	Yes
<b>Security &amp; Reliability</b>	
Intel® AES New Instructions	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