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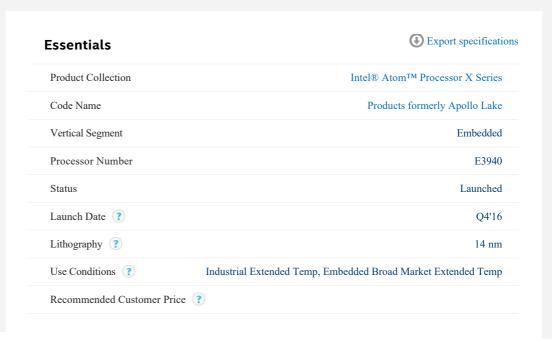


#### Intel Atom® x5-E3940 Processor

2M Cache, up to 1.80 GHz

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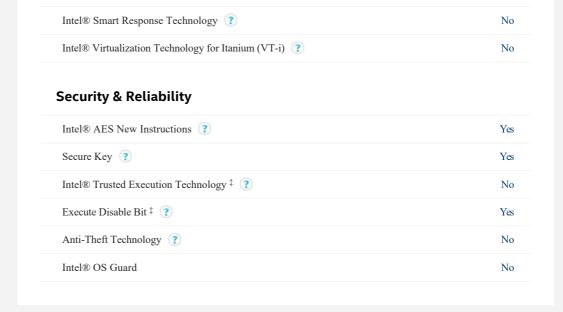
Performance	
# of Cores ?	
# of Threads ?	
Processor Base Frequency ?	1.60 G
Burst Frequency ?	1.80 G
Cache ?	2 MB
TDP ?	9.5
Supplemental Information	
Embedded Options Available ?	
Additional Information URL	View n
Memory Specifications	
Max Memory Size (dependent on memory type) ?	8
Memory Types ?	DDR3L (ECC and Non ECC) up to 1866 MT LPDDR4 up to 2133 M
Max # of Memory Channels ?	
Max Memory Bandwidth ?	34.1 G
Physical Address Extensions ?	40
ECC Memory Supported \$ ?	
Processor Graphics	
Processor Graphics  Processor Graphics ‡ ②	Intel® HD Graphics
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?	Intel® HD Graphics :
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency	Intel® HD Graphics : 400 M
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?	Intel® HD Graphics: 400 M 600 M
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?	Intel® HD Graphics: 400 M 600 M
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?	Intel® HD Graphics : 400 M 600 M 2 eDP/DP/HDMI/MIPI-I
Processor Graphics  Processor Graphics ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?  DirectX* Support ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?  DirectX* Support ?  OpenGL* Support ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?  DirectX* Support ?  OpenGL* Support ?  Intel® Quick Sync Video ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?  DirectX* Support ?  OpenGL* Support ?  Intel® Quick Sync Video ?  Intel® InTru™ 3D Technology ?	Intel® HD Graphics: 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60
Processor Graphics  Processor Graphics ‡ ?  Graphics Base Frequency ?  Graphics Burst Frequency  Graphics Video Max Memory ?  Graphics Output ?  Execution Units ?  4K Support ?  Max Resolution (HDMI 1.4)‡ ?  Max Resolution (DP)‡ ?  Max Resolution (eDP - Integrated Flat Panel)‡ ?  DirectX* Support ?  OpenGL* Support ?  Intel® Quick Sync Video ?  Intel® InTru™ 3D Technology ?  Intel® Clear Video HD Technology ?	Intel® HD Graphics 3 400 M 600 M 2 eDP/DP/HDMI/MIPI-I  Yes, at 60 3840x2160 @30 4096x2160 @60 3840x2160 @ 60

## **Expansion Options** PCI Express Revision ? 2.0 PCI Express Configurations ‡ ? x4,x2,x1 Max # of PCI Express Lanes ? I/O Specifications # of USB Ports USB Revision ? 2.0/3.0 Total # of SATA Ports ? 2 Integrated LAN ? No General Purpose IO Yes UART Yes Max # of SATA 6.0 Gb/s Ports **Package Specifications**

Sockets Supported ?	FCBGA1296
Max CPU Configuration	1
T <sub>CASE</sub> ?	100°C
T <sub>JUNCTION</sub> ?	110°C
Operating Temperature Range	-40°C to 85°C
Package Size	24mm x 31mm
Low Halogen Options Available	No

#### **Advanced Technologies**

Intel® Turbo Boost Technology ‡ ?	No
Intel® vPro <sup>TM</sup> Platform Eligibility ‡ ?	No
Secure Boot ?	Yes
Intel® Hyper-Threading Technology ‡ ?	No
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® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® HD Audio Technology ?	Yes
Intel® Identity Protection Technology ‡ 💽	Yes
Intel® Rapid Storage Technology ?	No
Intel® Smart Connect Technology ?	No
Intel® Stable Image Platform Program (SIPP)	No



More support options for Intel Atom® x5-E3940 Processor (2M Cache, up to 1.80 GHz)











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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.

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

Intel® Smart Response Technology requires a select Intel® Core™ processor, an enabled chipset, Intel® Rapid Storage Technology software, and a properly configured hybrid drive (HDD + small SSD). Depending on system configuration, your results may vary. Contact your system manufacturer for more information.

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).

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

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

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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