



# Intel® Core™ i5-7440EQ Processor

6M Cache, up to 3.60 GHz

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Essentials

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Product Collection	7th Generation Intel® Core™ i5 Processors
Code Name	Products formerly Kaby Lake
Vertical Segment	Embedded
Processor Number	i5-7440EQ
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	Industrial Commercial Temp, Embedded Broad Market Commercial Temp, PC/Client/Tablet

Performance

# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	2.90 GHz
Max Turbo Frequency ?	3.60 GHz
Cache ?	6 MB
Bus Speed ?	8 GT/s DMI
TDP ?	45 W
Configurable TDP-down ?	35 W

















Supplemental Information

Embedded Options Available ?	Yes
Datasheet	<a href="#">View now</a>



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
ECC Memory Supported ‡ ?	No



## Processor Graphics

Processor Graphics <sup>‡</sup> 	Intel® HD Graphics 630
Graphics Base Frequency 	350 MHz
Graphics Max Dynamic Frequency 	1.00 GHz
Graphics Video Max Memory 	64 GB
Graphics Output 	eDP/DP/HDMI/DVI
4K Support 	Yes, at 60Hz
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
DirectX* Support 	12
OpenGL* Support 	4.5
Intel® Quick Sync Video 	Yes
Intel® InTru™ 3D Technology 	Yes
Intel® Clear Video HD Technology 	Yes
Intel® Clear Video Technology 	Yes
# of Displays Supported <sup>‡</sup>	3
Device ID	0x591B










## Expansion Options

PCI Express Revision 	3.0
PCI Express Configurations <sup>‡</sup> 	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes 	16

## Package Specifications

Sockets Supported 	FCBGA1440
Max CPU Configuration	1
T <sub>JUNCTION</sub> 	100°C
Package Size	42mm x 28mm

## Advanced Technologies

Intel® Speed Shift Technology 	Yes
Intel® Turbo Boost Technology <sup>‡</sup> 	2.0
Intel® vPro™ Platform Eligibility <sup>‡</sup> 	Yes
Secure Boot 	Yes
Intel® Hyper-Threading Technology <sup>‡</sup> 	No
Intel® Virtualization Technology (VT-x) <sup>‡</sup> 	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <sup>‡</sup> 	Yes
Intel® VT-x with Extended Page Tables (EPT) <sup>‡</sup> 	Yes
Intel® TSX-NI 	Yes

Intel® 64 ‡ ?	Yes
Instruction Set ?	64-bit
Instruction Set Extensions ?	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® Identity Protection Technology ‡ ?	Yes

### Security & Reliability

Intel® AES New Instructions ?	Yes
Intel® Software Guard Extensions (Intel® SGX) ?	Yes
Intel® Memory Protection Extensions (Intel® MPX) ?	Yes
Intel® Trusted Execution Technology ‡ ?	Yes
Execute Disable Bit ‡ ?	Yes
Intel® OS Guard	Yes
Intel® Boot Guard ?	Yes

More support options for Intel® Core™ i5-7440EQ Processor (6M Cache, up to 3.60 GHz)



Product Support



Downloads and Software



Support Community



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.

Downloaded from [www.intel.com/content/www/us/en/processors/core-i5-7440eq-processor.html](http://www.intel.com/content/www/us/en/processors/core-i5-7440eq-processor.html) | single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See

[www.intel.com/technology/turboboost/](http://www.intel.com/technology/turboboost/) for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. Listing of these RCP does not 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.

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 <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.



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