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Intel® Core™ i7-7Y75 Processor

(4M Cache, up to 3.60 GHz)

Specifications

Essentials Performance Supplemental Information

Memory Specifications Graphics Specifications Expansion Options Package Specifications Advanced Technologies Intel® Data Protection Technology

Protection Technology

Intel® Platform

Ordering / sSpecs / **Steppings**

Specifications

- Essentials		
Processor Number	i7-7Y75	
Status	Launched	
Launch Date	Q3'16	
Lithography	14 nm	
Recommended Customer Price		

- Performance	
# of Cores	2
# of Threads	4
Processor Base Frequency	1.30 GHz
Max Turbo Frequency	3.60 GHz
Cache	4 MB SmartCache
Bus Speed	4 GT/s OPI
TDP	4.5 W
Configurable TDP-up Frequency	1.60 GHz
Configurable TDP-up	7 W
Configurable TDP-down Frequency	600.00 MHz
Configurable TDP-down	3 5 W

- Supplemental Information

Embedded Options Available	Q No
Datasheet	Link
Conflict Free	Yes

Memory Specifications			
Max Memory Size (dependent on memory type)	16 GB		
Memory Types	LPDDR3-1866, DDR3L-1600		
Max # of Memory Channels	2		
Max Memory Bandwidth	29.8 GB/s		
ECC Memory Supported ‡	No		

- Graphics Specifications	
Processor Graphics ‡	Intel® HD Graphics 615
Graphics Base Frequency	300.00 MHz
Graphics Max Dynamic Frequency	1.05 GHz
Graphics Video Max Memory	16 GB
Graphics Output	eDP/DP/HDMI/DVI
4K Support	Yes, at 60Hz
Max Resolution (Intel® WiDi)‡	1080p
Max Resolution (HDMI 1.4)‡	4096x2304@24Hz
Max Resolution (DP)‡	3840x2160@60Hz

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Intel® Core™ i7-7Y Mobile **Processor Series**

Products formerly Kaby Lake

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PCN/MDDS Information

SR2ZT 951956: MDDS SR2VK

951044: MDDS



Max Resolution (eDP - Integrated Flat Panel)‡		3840x2160@60Hz
DirectX* Support		12
OpenGL* Support		4.4
Intel® Quick Sync Video	Q	Yes
Intel® InTru™ 3D Technology		Yes
Intel® Clear Video HD Technology		Yes
Intel® Clear Video Technology		Yes
Intel® Wireless Display	Q	Yes
# of Displays Supported [‡]		3
Device ID		0x591E
- Expansion Options		
PCI Express Revision		3.0
PCI Express Configurations ‡		1x4, 2x2, 1x2+2x1 and 4x1
Max # of PCI Express Lanes		10
- Package Specifications		
Sockets Supported		FCBGA1515
Max CPU Configuration		1
TJUNCTION		100°C
Package Size		20mm X 16.5mm
Low Halogen Options Available		See MDDS
- Advanced Technologies		
Intel® Turbo Boost Technology ‡		2.0
Intel® vPro Technology ‡	Q	No
Intel® Hyper-Threading Technology ‡	Q	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) ‡	Q	Yes
Intel® TSX-NI		Yes
Intel® 64 ‡	Q	Yes
Instruction Set	٠	64-bit
Instruction Set Extensions		SSE4.1/4.2, AVX 2.0
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Thermal Monitoring Technologies	•	Yes
Intel® Flex Memory Access		Yes
Intel® Stable Image Platform Program (SIPP)		Yes
Intel® Small Business Advantage		Yes
Intel® Smart Response Technology		Yes
Intel® My WiFi Technology		Yes
- Intel® Data Protection Technology		
Intel® AES New Instructions	Q	Yes
Secure Key		Yes
Intel® Software Guard Extensions (Intel® SGX)		Yes
Intel® Memory Protection Extensions (Intel® MF	X)	Yes
- Intel® Platform Protection Technology		
Trusted Free: on Technology ‡	Q	Yes
	_	

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Execute Disable Bit ‡	Yes
OS Guard	Yes

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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, BloS, 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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

See http://www.intel.com/content/www/us/en/architecture-and-technology/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.

The Recommended Customer -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.

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.

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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