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Intel[®] Core[™] i7-4558U Processor

4M Cache, up to 3.30 GHz

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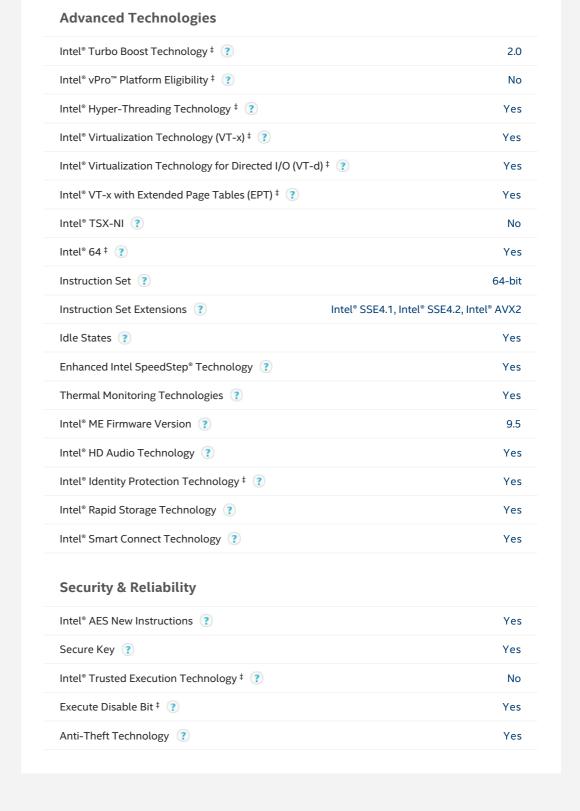
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Essentials	Export specification
Product Collection	4th Generation Intel® Core™ i7 Processors
Code Name	Products formerly Haswell
Vertical Segment	Mobile
Processor Number	i7-4558U
Off Roadmap	No
Status	Launched
Launch Date ?	Q3'13
Lithography ?	22 nm
Performance	
# of Cores ?	2
# of Threads ?	4
Processor Base Frequency ?	2.80 GHz
Max Turbo Frequency ?	3.30 GHz
Cache ?	4 MB Intel® Smart Cache
Bus Speed ?	5 GT/s
TDP ?	28 W
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) 👔	16 GB
Memory Types 🔞	DDR3L 1333/1600
Max # of Memory Channels ?	2
Max Memory Bandwidth 🔞	25.6 GB/s
ECC Memory Supported ‡ ?	No

Processor Graphics	
Processor Graphics ‡ 🔞	Intel® Iris® Graphics 51
Graphics Base Frequency ?	200 M
Graphics Max Dynamic Frequency ?	1.20 G
Graphics Video Max Memory ?	2
Graphics Output ?	eDP/DP/HDMI/V
Max Resolution (HDMI 1.4)‡ ?	3200x2000@60
Max Resolution (DP)‡ 😨	3200x2000@60
Max Resolution (VGA)‡ 🔞	N
DirectX* Support ?	11.2/
OpenGL* Support ?	2
Intel® Quick Sync Video ?	Υ
Intel® InTru™ 3D Technology 🕐	Y
Intel® Flexible Display Interface (Intel® FDI) 🔞	Y
Intel® Clear Video HD Technology 🔞	Y
# of Displays Supported ‡	
Device ID	0xA
Expansion Options	
PCI Support ?	
PCI Express Revision ?	454.2
PCI Express Configurations ‡ ?	4x1, 2
Max # of PCI Express Lanes ?	
I/O Specifications	
# of USB Ports	
USB Revision ?	:
Total # of SATA Ports ?	
Integrated LAN ?	I
Integrated IDE ?	1
General Purpose IO	Y
UART	Y
Max # of SATA 6.0 Gb/s Ports	
Package Specifications	
Sockets Supported ?	FCBGA11
Max CPU Configuration	



More support options for Intel® Core™ i7-4558U Processor (4M Cache, up to 3.30 GHz)





Downloads and Software



Support Community



Warranty and Replacement



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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.

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.

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.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

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.

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

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.

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.



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