



Intel® Core™ i7-5557U Processor

4M Cache, up to 3.40 GHz

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Essentials

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Product Collection	5th Generation Intel® Core™ i7 Processors
Code Name	Products formerly Broadwell
Vertical Segment	Mobile
Processor Number	i7-5557U
Off Roadmap	No
Status	Launched
Launch Date	Q1'15
Lithography	14 nm

Performance

# of Cores	2
# of Threads	4
Processor Base Frequency	3.10 GHz
Max Turbo Frequency	3.40 GHz
Cache	4 MB
Bus Speed	5 GT/s
TDP	28 W
Configurable TDP-down	23 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, LPDDR3 1600/1866
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s

Processor Graphics

Processor Graphics ‡ ?	Intel® Iris® Graphics 6100
Graphics Base Frequency ?	300 MHz
Graphics Max Dynamic Frequency ?	1.10 GHz
Graphics Video Max Memory ?	16 GB
Graphics Output ?	eDP/DP/HDMI
Max Resolution (HDMI 1.4)‡ ?	2560x1600@60Hz
Max Resolution (DP)‡ ?	3840x2160@60Hz
DirectX* Support ?	11.2/12
OpenGL* Support ?	4.3
Intel® Quick Sync Video ?	Yes
Intel® InTru™ 3D Technology ?	Yes
Intel® Flexible Display Interface (Intel® FDI) ?	Yes
Intel® Clear Video HD Technology ?	Yes
Intel® Clear Video Technology ?	Yes
# of Displays Supported ‡	3
Device ID	0x162B

Expansion Options

PCI Express Revision ?	2.0
PCI Express Configurations ‡ ?	4x1, 2x4
Max # of PCI Express Lanes ?	12

Package Specifications

Sockets Supported ?	FCBGA1168
Max CPU Configuration	1
T _{JUNCTION} ?	105°C
Package Size	40mm x24mm x 1.3mm

Advanced Technologies

Intel® Turbo Boost Technology ‡ ?	2.0
Intel® vPro™ Platform Eligibility ‡ ?	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 

Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

Idle States 	Yes
Enhanced Intel SpeedStep® Technology 	Yes
Thermal Monitoring Technologies 	Yes
Intel® Fast Memory Access 	Yes
Intel® Flex Memory Access 	Yes
Intel® Identity Protection Technology ‡ 	Yes
Intel® Stable Image Platform Program (SIPP) 	No
Intel® Smart Response Technology 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Secure Key 	Yes
Intel® Trusted Execution Technology ‡ 	No
Execute Disable Bit ‡ 	Yes
Intel® OS Guard	Yes

More support options for Intel® Core™ i7-5557U Processor (4M Cache, up to 3.40 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.

‡ 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.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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.

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.

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

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

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.

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.



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