



# Intel® Core™ i7-3555LE Processor

4M Cache, up to 3.20 GHz

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## Essentials

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Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Ivy Bridge
Vertical Segment	Embedded
Processor Number	i7-3555LE
Status	Launched
Launch Date 	Q2'12
Lithography 	22 nm
Recommended Customer Price 	
Use Conditions 	Embedded Broad Market Commercial Temp, PC/Client/Tablet

## Performance

# of Cores 	2
# of Threads 	4
Processor Base Frequency 	2.50 GHz
Max Turbo Frequency 	3.20 GHz
Cache 	4 MB SmartCache
Bus Speed 	5 GT/s DMI
TDP 	25 W

## Supplemental Information

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

## Memory Specifications

Max Memory Size (dependent on memory type) 	16 GB
Memory Types 	DDR3/DDR3L 1333/1600
Max # of Memory Channels 	2
Max Memory Bandwidth 	25.6 GB/s
ECC Memory Supported 	Yes

## Processor Graphics

Processor Graphics 	Intel® HD Graphics 4000
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Graphics Base Frequency	550 MHz
Graphics Max Dynamic Frequency	1.00 GHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
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	No
# of Displays Supported <sup>‡</sup>	3

## Expansion Options

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

## Package Specifications

Sockets Supported	FCBGA1023
Max CPU Configuration	1
T <sub>JUNCTION</sub>	105°C
Package Size	31.0mm x 24.0mm
Low Halogen Options Available	See MDDS

## Advanced Technologies

Intel® Turbo Boost Technology <sup>‡</sup>	2.0
Intel® vPro™ Technology <sup>‡</sup>	Yes
Intel® Hyper-Threading Technology <sup>‡</sup>	Yes
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® 64 <sup>‡</sup>	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® AVX
Intel® My WiFi Technology	Yes
4G WiMAX Wireless Technology	No
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Intel® Identity Protection Technology <sup>‡</sup>	Yes

## Security & Reliability

Intel® AES New Instructions	?	Yes
Intel® Trusted Execution Technology	?	Yes
Execute Disable Bit	?	Yes
Anti-Theft Technology	?	No

More support options for Intel® Core™ i7-3555LE Processor (4M Cache, up to 3.20 GHz)



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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.

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/](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.

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.

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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