Intel® Core™ i3-6100 Processor (3M Cache, 3.70 GHz)

- Essentials	
Status	Launched
Launch Date	Q3'15
Processor Number	i3-6100
Intel® Smart Cache	3 MB
DMI3	8 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX 2.0
Embedded Options Available	Q Yes
Lithography	14 nm
Scalability	1S Only
Thermal Solution Specification	PCG 2015C (65W)
Recommended Customer Price	BOX: \$117.00 TRAY: \$117.00
Conflict Free	Yes
Datasheet	Link
- Performance	
# of Cores	2
# of Threads	4
Processor Base Frequency	3.7 GHz
TDP	51 W
- Memory Specifications	
Max Memory Size (dependent on memory type)	64 GB
Memory Types	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35
Max # of Memory Channels	2
Max Memory Bandwidth	34.1 GB/s
ECC Memory Supported [‡]	Yes
- Graphics Specifications	
Processor Graphics [‡]	Intel® HD Graphics 530
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.05 GHz
Graphics Video Max Memory	64 GB

Graphics Output		eDP/DP/HDMI/DVI	
upport		Yes, at 60Hz	
Max Resolution (Intel® WiDi)‡		1080p	
Max Resolution (HDMI 1.4)‡		4096x2304@24Hz	
Max Resolution (DP)‡		4096x2304@60Hz	
Max Resolution (eDP - Integrated Flat Panel)‡		4096x2304@60Hz	
Max Resolution (VGA)‡		N/A	
DirectX* Support		12	
OpenGL* Support		4.4	
Intel® Quick Sync Video	Q	Yes	
Intel® InTru™ 3D Technology		Yes	
Intel® Insider™		Yes	
Intel® Wireless Display	Q	Yes	
Intel® Clear Video HD Technology		Yes	
Intel® Clear Video Technology		Yes	
# of Displays Supported [‡]		3	
Device ID		0x1912	
- Expansion Options			
PCI Express Revision		3.0	
PCI Express Configurations ‡		Up to 1x16, 2x8, 1x8+2x4	
Max # of PCI Express Lanes		16	
- Package Specifications			
Max CPU Configuration		1	
TCASE			
Package Size			
Graphics and IMC Lithography		14 nm	
Sockets Supported		FCLGA1151	
Low Halogen Options Available		See MDDS	
- Advanced Technologies			
Intel® Turbo Boost Technology ‡		No	
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) ‡	Q	Yes	
Intel® VT-x with Extended Page Tables (EPT) ‡	Q	Yes	
Intel® TSX-NI		No	
Intel® 64 ‡	Q	Yes	

	Yes
Q	Yes
	Yes
	Yes
	No
	Yes
Q	Yes
	Yes
	Yes
	Yes
	Yes
Q	No
	Yes
	Q

Compatible Products

Find Compatible Desktop Boards >

Chipsets					
Compare	Product Name	Status	Embedded Options Available	TDP	Recommended Customer Pri
Compare All +					
	Intel® H170 Chipset (Intel® GL82H170 PCH)	Launched	No	6 W	T&R: \$32.00
	Intel® H110 Chipset (Intel® GL82H110 PCH)	Launched	Yes	6 W	T&R: \$26.00
	Intel® Z170 Chipset (Intel® GL82Z170 PCH)	Launched	No	6 W	T&R: \$47.00
	Intel® Q170 Chipset (Intel® GL82Q170 PCH)	Launched	Yes	6 W	T&R: \$47.00
	Intel® Q150 Chipset (Intel® GL82Q150 PCH)	Launched	No	6 W	T&R: \$43.00
	Intel® B150 Chipset (Intel® GL82B150 PCH)	Launched	No	6 W	T&R: \$28.00

Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992C	G077159	8542310000

Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Boxed Intel® Core™ i3-6100 Pro	cessor (3M Cache, 3.70 GHz) FC-LGA14C		
SR2HG	BX80662I36100	SO	\$117.00
Boxed Intel® Core™ i3-6100 Pro	cessor (3M Cache, 3.70 GHz) FC-LGA14C, for China		
SR2HG	BXC80662I36100	SO	N/A
Intel® Core™ i3-6100 Processor	(3M Cache, 3.70 GHz) FC-LGA14C, Tray		
SR2HG	CM8066201927202	S0	\$117.00

Download Drivers



Intel® Security Unifier

Intel® Security Unifier utility enables users to scan their computing devices for the latest security software components available from Intel (1.0.0.658).

Version: 1.0.0.658 (Latest) **Date:** 5/5/2016

Operating Systems: Windows 7*, Windows 8*, Windows 8.1*, 2 more



Intel® Beta Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

Intel® Beta Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40].

Version: Beta 15.40.23.4444 (Latest) **Date:** 4/29/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

Version 15.40.22.4424 of the Intel® Graphics Driver for Windows® 10 and Windows 7*/8.1*.

Version: 15.40.22.4424 (Latest) **Date:** 4/22/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Management Engine (Intel® ME) software for systems based on 3rd generation Intel® Processors or above.

Intel® Management Engine (Intel® ME) software 11.0.2.1002 for systems based on 3rd generation Intel® Processors or above.

Version: 11.0.2.1002 (Latest) **Date:** 3/29/2016

Operating Systems: Windows Vista*, Windows Vista Beta 1*, Windows Vista Business, 32-bit*, 37 more



Intel® Graphics Driver for Windows® 7/8.1/10* [15.40 6th Gen]

This package installs the Intel® graphics driver versions 15.40.14.64.4352 and 15.40.14.32.4352 on Windows* for 6th generation platforms.

Version: 15.40.14.4352 (Latest) **Date:** 12/23/2015

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 64-bit*, Windows 9 10, 64-bit



Intel® Beta Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

Intel® Beta Graphics Driver for Windows® 7/8.1/10* [15.40]

Version: Beta 15.40.20.4404 (Previously **Date:** 3/11/2016

Released)

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

OS support varies by platform with these drivers. Read driver ReadMe's to see if your product+OS combo is supported with this driver.

Version: 15.40.18.4380 (Previously Released) **Date:** 3/8/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Beta Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

 $This download in stalls the Intel ^{\circ} beta graphics driver version 15.40.18.4380 for Windows ^{\star} 7, Windows 8.1, and Windows ^{\circ} 10.$

Version: Beta 15.40.18.4380 (Previously Released) Date: 2/5/2016

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 2 more



Intel® Beta Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

This is a BETA Graphics Driver (versions 15.40.12.64.4326 and 15.40.12.4326) for Windows*.

Version: Beta 15.40.12.4326 (Previously **Date:** 11/20/2015

Released)

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

These downloads are used to install the Intel® Graphics Driver package version 15.40.10.4300, which supports Windows* 7, Windows 8.1, and Windows®

10, 32- and 64-bit.

Version: 15.40.10.4300 (Previously Released)

Date: 10/26/2015

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Graphics Driver for Windows® 10 and Windows 7*/8.1* [15.40]

This driver for Windows* (version 15.40.7.4279) adds support for the 6th Generation Intel® Core family of processors with Intel® HD Graphics 500.

Version: 15.40.7.4279 (Previously Released)

Date: 9/1/2015

Operating Systems: Windows 7, 32-bit*, Windows 7, 64-bit*, Windows 8.1, 32-bit*, 3 more



Intel® Iris™, Iris™ Pro, and HD Graphics Production Driver for Windows® 10 64-bit

This download installs the Intel® Iris™ graphics, Iris™ Pro graphics, and Intel® HD Graphics production driver version 15.40.4.64.4256 for Windows® 10, 64-bit, adding new Windows 10 features.

Version: 15.40.4.64.4256 (Previously Released) **Date:** 8/5/2015

Operating Systems: Windows® 10, 64-bit

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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.

"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 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/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.

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 $System\ and\ Maximum\ TDP\ is\ based\ on\ worst\ case\ scenarios.\ Actual\ TDP\ may\ be\ lower\ if\ not\ all\ I/Os\ for\ chipsets\ are\ used.$

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 $\frac{1}{2} \frac{1}{2} \frac{1}{2$

 $Processors\ that\ support\ 64-bit\ computing\ on\ Intel^{\it @}\ architecture\ require\ an\ Intel\ 64\ architecture-enabled\ BIOS.$

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