



## Intel® Core™ i7-5500U Processor (4M Cache, up to 3.00 GHz)

### Specifications

#### - Essentials

Processor Number	i7-5500U
Status	Launched
Launch Date	Q1'15
Lithography	14 nm
Recommended Customer Price	\$393.00

#### - Performance

# of Cores	2
# of Threads	4
Processor Base Frequency	2.40 GHz
Max Turbo Frequency	3.00 GHz
Cache	4 MB
Bus Speed	5 GT/s DMI2
TDP	15 W
Configurable TDP-down Frequency	600.00 MHz
Configurable TDP-down	7.5 W

#### - Supplemental Information

Embedded Options Available	 No
Datasheet	<a href="#">Link</a>
Conflict Free	Yes

#### - Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3L 1333/1600, LPDDR3 1333/1600
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s

#### - Graphics Specifications

Processor Graphics †	Intel® HD Graphics 5500
Graphics Base Frequency	300.00 MHz
Graphics Max Dynamic Frequency	950.00 MHz
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
Intel® Wireless Display		Yes
# of Displays Supported ‡		3
Device ID		0x1616







- 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 <sub>JUNCTION</sub>		105°C
Package Size		40mm x 24mm x 1.3mm
Low Halogen Options Available		See MDDS

- Advanced Technologies

Intel® Turbo Boost Technology ‡		2.0
Intel® vPro Technology ‡		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		SSE4.1/4.2, AVX 2.0
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® Small Business Advantage		Yes
Intel® Smart Response Technology		Yes

- Intel® Data Protection Technology

Intel® AES New Instructions		Yes
-----------------------------	---	-----

Secure Key	Yes
- Intel® Platform Protection Technology	
Trusted Execution Technology †	No
Execute Disable Bit †	Yes
OS Guard	Yes

## Ordering and Spec Information

### Trade Compliance Information

ECCN	CCATS	US HTS
5A992CN3	G071701++	8542310000-HYBRD

### Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Intel® Core™ i7-5500U Processor (4M Cache, up to 3.00 GHz) FC-BGA14F, Tray			
SR23W	FH8065801620004	FO	\$393.00

## Download Drivers



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

Downloads the Intel® Beta Graphics Driver for Battlefield 1\* and Fifa 17\*.

**Version:** Beta 15.40.xx.4539 (Latest)

**Date:** 10/20/2016

**Operating Systems:** Windows 7, 64-bit\*, Windows 8, 64-bit\*, Windows 8.1, 64-bit\*, Windows® 10, 64-bit\*



### Intel® Security Unifier

The Intel® Security Unifier utility enables users to scan their computing devices for the latest security software components available from Intel (1.1.0.40).

**Version:** 1.1.0.40 (Latest)

**Date:** 8/18/2016

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



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

Installs the Intel® Graphics Driver 15.40.28.4501 for Windows® 10 and Windows 7\*/8.1\*

**Version:** 15.40.28.4501 (Latest)

**Date:** 8/12/2016

**Operating Systems:** Windows 7, 32-bit\*, Windows 7, 64-bit\*, Windows 8, 32-bit\*, 5 more



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

Intel® Beta Graphics Driver for \*Gears of War 4 - Press Release

**Version:** Beta 15.40.xx.4530 (Previously Released)

**Date:** 9/30/2016

**Operating Systems:** Windows® 10, 64-bit\*



### 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 15.40.26.4474 (Previously Released)

**Date:** 6/24/2016

**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]

Installs the Intel® Graphics Driver 15.40.25.4463 for Windows® 10 and Windows 7\*/8.1\*.

**Version:** 15.40.25.4463 (Previously Released)

**Date:** 6/17/2016

**Operating Systems:** Windows 7, 32-bit\*, Windows 7, 64-bit\*, Windows 8, 32-bit\*, 5 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 (Previously Released) **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 (Previously Released) **Date:** 4/22/2016

**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]

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

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

**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]

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 installs the Intel® beta graphics driver version 15.40.18.4380 for Windows\* 7, Windows 8.1, and Windows® 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® Graphics Driver for Windows 7\*/8.1\* [15.36]

This download installs the Intel® Graphics Driver version 15.36.28.4332 for Windows\* 7 and Windows 8.1 supporting 4th and 5th Generation Intel® Core™ Processors.

**Version:** 15.36.28.4332 (Previously Released) **Date:** 12/11/2015

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



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

This download installs Beta versions 15.40.12.64.4326 and 15.40.12.4326 of the graphics driver for Windows\* 7/8.1/10.

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

**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]

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 7\*/8.1\* [15.36]

This download installs version 15.36.26.4294 of the Intel® Graphics Driver for Windows\* 7/ 8.1, 32 and 64-bit.

**Version:** 15.36.26.4294 (Previously Released) **Date:** 10/9/2015

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



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

This download installs version 15.40.7.4279 of the Intel® Graphics Driver for Windows\* 7/8.1/10, 32 and 64-bit.

**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\*

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the

correct classification of any item at the time of export.

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. 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/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.

[Send us your feedback!](#)

---