34.1 GB/s





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## Intel<sup>®</sup> Core<sup>™</sup> i5-7300U Processor

\*1ax Memory Bandwidth ?

3M Cache, up to 3.50 GHz

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### Specifications

### Essentials

Performance

Supplemental Information

**Memory Specifications** 

**Processor Graphics** 

**Expansion Options** 

Package Specifications

**Advanced Technologies** 

Security & Reliability

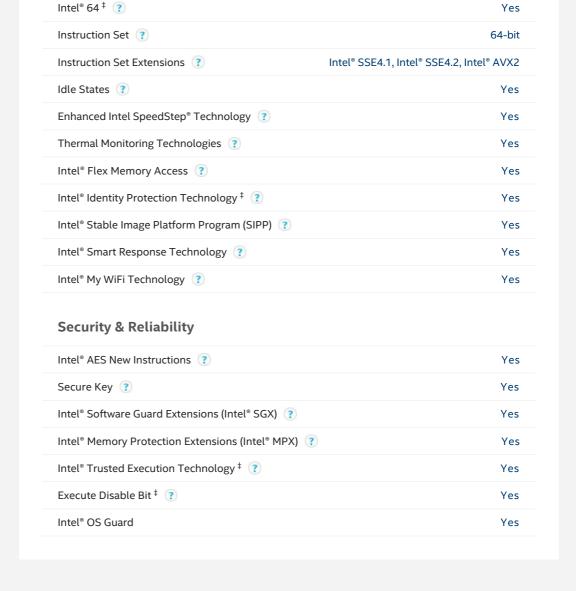
# Ordering and Compliance

### **Product Images**

Downloads and Software

Essentials	Export specificatio
Product Collection	7th Generation Intel® Core™ i5 Processors
Code Name	Products formerly Kaby Lake
Vertical Segment	Mobile
Processor Number	i5-7300U
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	Industrial Commercial Temp
Performance	
# of Cores ?	2
# of Threads ?	4
Processor Base Frequency	2.60 GHz
Max Turbo Frequency ?	3.50 GHz
Cache ?	3 MB SmartCache
Bus Speed ?	4 GT/s OPI
TDP ?	15 W
Configurable TDP-up Frequency 🕜	2.70 GHz
Configurable TDP-up ?	25 W
Configurable TDP-down Frequency 🔞	800 MHz
Configurable TDP-down ?	7.5 W
Supplemental Information	
Embedded Options Available ?	Yes
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) ?	32 GB
Memory Types ?	DDR4-2133, LPDDR3-1866, DDR3L-1600
Max # of Memory Channels 🔞	2

Graphics Max Dynamic Frequency ② 1.10 Graphics Max Dynamic Frequency ② 1.10 Graphics Video Max Memory ② 2.2 Graphics Output ② eDP/DP/HDM//I 4K Support ② Yes, at 60 Max Resolution (HDMI 1.4)‡ ② 4096x2304@60 Max Resolution (DP)‡ ② 4096x2304@60 Max Resolution (DP) = Integrated Flat Panel)‡ ② 4096x2304@60 Max Resolution (eDP - Integrated Flat Panel)‡ ② 4096x2304@60 DirectX* Support ② OpenGL* Support ② Intel* Quick Sync Video ② Intel* Quick Sync Video ② Intel* Clear Video HD Technology ② # of Displays Supported ↓ Device ID  Expansion Options  PCI Express Revision ② PCI Express Configurations ③ 1x4, 2x2, 1x2+2x1 and	ECC Memory Supported ‡ ?	l l
Graphics Base Frequency ? 1.10 Graphics Max Dynamic Frequency ? 1.10 Graphics Max Dynamic Frequency ? 1.10 Graphics Video Max Memory ? 2 22 Graphics Output ? 2 PD/PD/HDM/I/4 K Support ? 1.00 Max Resolution (HDMI 1.4)‡ ? 1.00 Max Resolution (HDMI 1.4)‡ ? 1.00 Max Resolution (DP)‡ ? 1.00 Max Resolution (DP)‡ ? 1.00 Max Resolution (DP)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Integrated Flat Panel)‡ ? 1.00 Max Resolution (DP) = Intel* Clear Video Technology ? 1.00 Max # of Displays Supported † 1.00 Max # of PCI Express Revision ? 1.00 Max # of PCI Express Configurations † ? 1.00 Max # of PCI Express Lanes ? 1.00 Max # of PCI Express Lanes ? 1.00 Max # of PCI Express Lanes ? 1.00 Max CPU Configuration	Processor Graphics	
Graphics Max Dynamic Frequency ② 1.10 C Graphics Video Max Memory ③ 22 Graphics Output ② eDP/DP/HDM/I/I 4K Support ② Yes, at 60 Max Resolution (HDMI 1.4)	Processor Graphics ‡ ?	Intel® HD Graphics 6
Graphics Video Max Memory ?  Graphics Output ?  Graphics Output ?  Yes, at 60  Max Resolution (HDMI 1.4)‡ ?  4096x2304@60  Max Resolution (EDP - Integrated Flat Panel)‡ ?  4096x2304@60  Max Resolution (EDP - Integrated Flat Panel)‡ ?  4096x2304@60  DirectX* Support ?  OpenGL* Support ?  Intel* Clear Video HD Technology ?  Intel* Clear Video Technology ?  # of Displays Supported †  Device ID  Ox55  Expansion Options  PCI Express Revision ?  PCI Express Configurations ‡ ?  Package Specifications  Sockets Supported ?  Package Specifications  Sockets Supported ?  Advanced Technologies  Intel* Optane** Memory Supported † ?  Intel* Optane** Memory Supported † ?  Intel* Optane** Memory Supported † ?  Intel* Speed Shift Technology ?  Intel* Turbo Boost Technology † ?  Intel* Turbo Boost Technology † ?  Intel* Turbo Boost Technology † ?  Intel* Virtualization Technology (VT-x) † ?  Intel* Virtualization Technology (V	Graphics Base Frequency 🕐	300 M
Graphics Output ② PDP/DP/HDM/M  4K Support ② Yes, at 60  Max Resolution (HDMI 1.4)‡ ② 4096x2304@60  Max Resolution (DP)‡ ⑦ 4096x2304@60  Max Resolution (eDP - Integrated Flat Panel)‡ ② 4096x2304@60  DirectX* Support ②  OpenGL* Support ②  Intel* Quick Sync Video ③ Intel* Clear Video HD Technology ② Y Y  Intel* Clear Video HD Technology ② Y  Intel* Clear Video Technology ② Y  # of Displays Supported †  Device ID Ox55  Expansion Options  PCI Express Revision ②  PCI Express Revision ②  PCI Express Configurations ‡ ② 1x4,2x2,1x2+2x1 and	Graphics Max Dynamic Frequency 💽	1.10 G
AK Support ? Yes, at 60  Max Resolution (HDMI 1.4)‡ ? 4096x2304@20  Max Resolution (DP)‡ ? 4096x2304@60  Max Resolution (eDP - Integrated Flat Panel)‡ ? 4096x2304@60  DirectX* Support ? 4096x2304@60  DirectX* Support ? 50  Intel* Quick Sync Video ? 50  Intel* Clear Video HD Technology ? 50  # of Displays Supported † 50  Expansion Options  PCI Express Revision ? 50  PCI Express Revision ? 50  PCI Express Configurations \$ 70  Package Specifications  Sockets Supported ? 50  Advanced Technologies  Intel* Optane* Memory Supported \$ 70  Intel* Optane* Memory Supported \$ 70  Intel* Speed Shift Technology ? 50  Intel* Turbo Boost Technology ? 50  Intel* Virtualization Technology (VT-x) \$ 70  Intel*	Graphics Video Max Memory 💿	32 (
Max Resolution (HDMI 1.4)‡ ② 4096x2304@60  Max Resolution (DP)‡ ② 4096x2304@60  Max Resolution (eDP - Integrated Flat Panel)‡ ② 4096x2304@60  DirectX* Support ②  OpenGL* Support ②  Intel* Quick Sync Video ②  Intel* Clear Video HD Technology ②	Graphics Output ?	eDP/DP/HDMI/D
Max Resolution (DP)‡ ② 4096x2304@60  Max Resolution (eDP - Integrated Flat Panel)‡ ② 4096x2304@60  DirectX* Support ②  OpenGL* Support ②  Intel* Quick Sync Video ②  Intel* Clear Video HD Technology ②	4K Support 😨	Yes, at 60
Max Resolution (eDP - Integrated Flat Panel)‡ ② 4096x2304@60 DirectX* Support ② Intel* Quick Sync Video ② Intel* Clear Video HD Technology ②	Max Resolution (HDMI 1.4)‡ 👔	4096x2304@24
DirectX* Support ?  OpenGL* Support ?  Intel* Quick Sync Video ?  Intel* Clear Video HD Technology ?  Intel* Clear Video Technology ?  Intel* Device ID  Ox55  Expansion Options  PCI Express Revision ?  PCI Express Configurations * ?  PCI Express Configurations * ?  Package Specifications  Sockets Supported ?  FCBGA13  Max CPU Configuration  T_JUNCTION ?  Advanced Technologies  Intel* Optane* Memory Supported * ?  Intel* Speed Shift Technology ?  Intel* Speed Shift Technology ?  Intel* VPro* Platform Eligibility * ?  Intel* VPro* Platform Eligibility * ?  Intel* VPro* Platform Eligibility * ?  Intel* Virtualization Technology (VT-x) * ?  Intel* Virtualization Technology for Directed I/O (VT-d) * ?  Intel* Virtualization Technology for Directed I/O (VT-d) * ?	Max Resolution (DP)‡ 🔞	4096x2304@60
OpenGL* Support ?  Intel* Quick Sync Video ?  Intel* Clear Video HD Technology ?  Intel* Clear Video Technology ?  # of Displays Supported †  Device ID	Max Resolution (eDP - Integrated Flat Panel)‡ 👔	4096x2304@60
Intel® Quick Sync Video ③ Intel® Clear Video HD Technology ② Intel® Clear Video Technology ② # of Displays Supported † Device ID Ox56  Expansion Options  PCI Express Revision ③ PCI Express Configurations † ② Ava, 2x2, 1x2+2x1 and Ava # of PCI Express Lanes ③  Package Specifications  Sockets Supported ③ Max CPU Configuration  T JUNCTION ③ Advanced Technologies  Intel® Optane® Memory Supported † ② Intel® Speed Shift Technology ③ Intel® Speed Shift Technology ③ Intel® Urbo Boost Technology ⑥ Intel® VPro® Platform Eligibility ∮ ② Intel® Hyper-Threading Technology ↓ ② Intel® Hyper-Threading Technology ↓ ② Intel® Virtualization Technology for Directed I/O (VT-d) ∮ ② Intel® Virtualization Technology for Directed I/O (VT-d) ∮ ②	DirectX* Support ?	
Intel® Clear Video HD Technology ② Intel® Clear Video Technology ② # of Displays Supported ‡  Device ID Ox55  Expansion Options  PCI Express Revision ③ PCI Express Configurations ‡ ② Max # of PCI Express Lanes ③  Package Specifications  Sockets Supported ③ FCBGA13  Max CPU Configuration  T JUNCTION ② 100 Package Size 42mm X 24r  Advanced Technologies  Intel® Optane® Memory Supported ‡ ② Intel® Optane® Memory Supported † ② Intel® Turbo Boost Technology ② Intel® Turbo Boost Technology ↑ Intel® Hyper-Threading Technology † ② Intel® Hyper-Threading Technology † ② Intel® Virtualization Technology (VT-x) ‡ ② Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ② Intel® Virtualization Technology	OpenGL* Support ?	
Intel® Clear Video Technology ② # of Displays Supported ‡  Device ID	Intel® Quick Sync Video ?	Y
# of Displays Supported †  Device ID	Intel® Clear Video HD Technology 😯	Y
Expansion Options  PCI Express Revision ?  PCI Express Configurations † ? 1x4, 2x2, 1x2+2x1 and ?  Max # of PCI Express Lanes ?  Package Specifications  Sockets Supported ? FCBGA13  Max CPU Configuration  T JUNCTION ? 100  Package Size 42mm X 24r  Advanced Technologies  Intel® Optane™ Memory Supported † ? 100  Intel® Turbo Boost Technology ? 101  Intel® Virtualization Technology (VT-x) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 101	Intel® Clear Video Technology 🕜	Υ
Expansion Options  PCI Express Revision ②  PCI Express Configurations ‡ ②  1x4, 2x2, 1x2+2x1 and A  Max # of PCI Express Lanes ②  Package Specifications  Sockets Supported ③  Max CPU Configuration  TJUNCTION ③  100  Package Size  42mm X 24r  Advanced Technologies  Intel® Optane™ Memory Supported ‡ ③  Intel® Turbo Boost Technology ③  Intel® Turbo Boost Technology † ③  Intel® VPro™ Platform Eligibility ‡ ②  Intel® Hyper-Threading Technology † ②  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ②  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ②	# of Displays Supported ‡	
PCI Express Revision ③  PCI Express Configurations ‡ ③  Nax # of PCI Express Lanes ③  Package Specifications  Sockets Supported ③  Max CPU Configuration  T_JUNCTION ②  Package Size  Advanced Technologies  Intel® Optane™ Memory Supported ‡ ③  Intel® Speed Shift Technology ②  Intel® Turbo Boost Technology ②  Intel® vPro™ Platform Eligibility ‡ ②  Intel® Virtualization Technology (VT-x) ‡ ②  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ②	Device ID	0x59
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Max CPU Configuration  T_JUNCTION ? 100  Package Size 42mm X 24m  Advanced Technologies  Intel® Optane™ Memory Supported † ? 100  Intel® Speed Shift Technology ? 100  Intel® Turbo Boost Technology † ? 100  Intel® VPro™ Platform Eligibility † ? 100  Intel® Hyper-Threading Technology † ? 100  Intel® Virtualization Technology (VT-x) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® Virtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † ? 100  Intel® VIrtualization Technology for Directed I/O (VT-d) † 000  Intel® VIrtualization Technology for Directed I/O (VT-d)	Package Specifications	
TJUNCTION ② 100  Package Size 42mm X 24r  Advanced Technologies  Intel® Optane™ Memory Supported † ② 1  Intel® Speed Shift Technology ② 1  Intel® Turbo Boost Technology † ② 1  Intel® vPro™ Platform Eligibility † ② 1  Intel® Hyper-Threading Technology † ② 1  Intel® Virtualization Technology (VT-x) † ② 1  Intel® Virtualization Technology for Directed I/O (VT-d) † ③ 1	Sockets Supported 🔞	FCBGA13
Package Size  Advanced Technologies  Intel® Optane™ Memory Supported † ?  Intel® Speed Shift Technology ?  Intel® Turbo Boost Technology † ?  Intel® vPro™ Platform Eligibility † ?  Intel® Hyper-Threading Technology † ?  Intel® Virtualization Technology (VT-x) † ?  Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Max CPU Configuration	
Advanced Technologies  Intel® Optane™ Memory Supported ‡ ?  Intel® Speed Shift Technology ?  Intel® Turbo Boost Technology ‡ ?  Intel® vPro™ Platform Eligibility ‡ ?  Intel® Hyper-Threading Technology † ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) † ?	T <sub>JUNCTION</sub> ?	100
Intel® Optane™ Memory Supported ‡ ?  Intel® Speed Shift Technology ?  Intel® Turbo Boost Technology ‡ ?  Intel® vPro™ Platform Eligibility ‡ ?  Intel® Hyper-Threading Technology † ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Package Size	42mm X 24n
Intel® Speed Shift Technology ?  Intel® Turbo Boost Technology ‡ ?  Intel® vPro™ Platform Eligibility ‡ ?  Intel® Hyper-Threading Technology ‡ ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Advanced Technologies	
Intel® Turbo Boost Technology ‡ ?  Intel® vPro™ Platform Eligibility ‡ ?  Intel® Hyper-Threading Technology ‡ ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Intel® Optane™ Memory Supported ‡ 🔞	Y
Intel® vPro™ Platform Eligibility ‡ ?  Intel® Hyper-Threading Technology ‡ ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Intel® Speed Shift Technology ?	Y
Intel® Hyper-Threading Technology ‡ ?  Intel® Virtualization Technology (VT-x) ‡ ?  Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ?	Intel® Turbo Boost Technology ‡ 💽	
Intel® Virtualization Technology (VT-x) † ?  Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Intel® vPro™ Platform Eligibility ‡ 👔	Y
Intel® Virtualization Technology for Directed I/O (VT-d) † ?		· · · · · · · · · · · · · · · · · · ·
•	Intel® Hyper-Threading Technology ‡ 🕐	· ·
Intel® VT-x with Extended Page Tables (EPT) ‡ 🕡		
	Intel® Virtualization Technology (VT-x) ‡ ?	Y



More support options for Intel® Core™ i5-7300U Processor (3M Cache, up to 3.50 GHz)





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**Support Community** 



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### Need more help?

Contact support



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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.

‡ 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 <a href="https://www.intel.com/technology/turboboost">www.intel.com/technology/turboboost</a>/ 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.

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 <a href="http://www.intel.com/content/www/us/en/processors/processor-numbers.html">http://www.intel.com/content/www/us/en/processors/processor-numbers.html</a> for details.

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



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