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Intel[®] Core[™] i7-7700T Processor

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8M Cache, up to 3.80 GHz

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Essentials	Export specification
Product Collection	7th Generation Intel® Core™ i7 Processors
Code Name	Products formerly Kaby Lake
Vertical Segment	Desktop
Processor Number	i7-7700T
Status	Launched
Launch Date ?	Q1'17
Lithography ?	14 nm
Recommended Customer Price ?	-
Use Conditions ? Embed	Ided Broad Market Commercial Temp, PC/Client/Tablet
Performance	
# of Cores ?	4
# of Threads ?	8
Processor Base Frequency ?	2.90 GHz
Max Turbo Frequency ?	3.80 GHz
Cache ?	8 MB SmartCache
Bus Speed ?	8 GT/s DMI3
# of QPI Links ?	0
TDP ?	35 W
Configurable TDP-down Frequency ?	1.90 GHz
Configurable TDP-down ?	25 W
Supplemental Information	
Embedded Options Available ?	Yes
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memor	y type) ? 64 GB
Memory Types ?	DDR4-2133/2400, DDR3L-1333/1600 @ 1.35V
Max # of Memory Channels ?	2
ECC Memory Supported ‡ ?	No

Processor Graphics ‡ ? Graphics Base Frequency ?	Intel® HD Graphic
	25/
Constituting Bounds Formula (S)	350
Graphics Max Dynamic Frequency ?	1.1
Graphics Video Max Memory ?	
4K Support ?	Yes, at
Max Resolution (HDMI 1.4)‡ ?	4096x2304@
Max Resolution (DP)‡ ?	4096x2304@
Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@
DirectX* Support ?	
OpenGL* Support (?)	
Intel® Quick Sync Video	
Intel® InTru™ 3D Technology (?	
Intel® Clear Video HD Technology 🔞	
Intel® Clear Video Technology ?	
# of Displays Supported [‡]	
Device ID	O
Expansion Options	
Expansion Options	
Scalability	15
PCI Express Revision ?	
PCI Express Configurations [‡] ?	Up to 1x16, 2x8, 1x8
Max # of PCI Express Lanes (?)	
Package Specifications	
Sockets Supported ?	FCLG/
Max CPU Configuration	
Thermal Solution Specification ?	PCG 2015A
TJUNCTION ?	
Package Size	37.5mm x 37
Advanced Technologies	
Intel® Optane™ Memory Supported ‡ ?	
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® VT-x with Extended Page Tables (EPT) ‡ ?	
Intel® TSX-NI 🔞	

Instruction Set Extensions ? Intel® SSE4.1, Ir	ntel® SSE4.2, Intel® AVX2
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® Identity Protection Technology ‡ 🔞	Yes
Intel® Stable Image Platform Program (SIPP) 🔞	Yes
Security & Reliability Intel® AES New Instructions ?	Yes
Intel® AES New Instructions ?	Yes
Secure Key 🔞	Yes
Intel® Software Guard Extensions (Intel® SGX) 🔞	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Intel® OS Guard	
Intel® Trusted Execution Technology ‡ 🕜	
Execute Disable Bit ‡ ?	Yes
	Yes

More support options for Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz)





Downloads and Software



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Warranty and Replacement



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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.

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.

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.

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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