



Intel® Core™ i7-7700T Processor

8M Cache, up to 3.80 GHz

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Ordering and spec information

Boxed Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C

Spec Code	SR339
Ordering Code	BX80677I77700T
Step	B0
RCP	\$312.00

Boxed Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C, for China

Spec Code	SR339
Ordering Code	BXC80677I77700T
Step	B0

Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C, Tray

Spec Code	SR339
Ordering Code	CM8067702868416
Step	B0
RCP	\$303.00

Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

PCN/MDDS Information

SR339

953005

[PCN | MDDS](#)

954222

[PCN | MDDS](#)

954229

[PCN | MDDS](#)

Downloads and Software

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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/ 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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Specifications

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Ordering and Compliance

Product Images

Compatible Products

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Essentials

Export specifications

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	\$303.00 - \$312.00
Use Conditions	Embedded 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 memory type)	64 GB
Memory Types	DDR4-2133/2400, DDR3L-1333/1600 @ 1.35V
Max # of Memory Channels	2
ECC Memory Supported	No

Processor Graphics

Processor Graphics	Intel® HD Graphics 630
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.15 GHz
Graphics Video Max Memory	64 GB
4K Support	Yes, at 60Hz
Max Resolution (HDMI)	4096x2304@24Hz
Max Resolution (DP)	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)	4096x2304@60Hz
DirectX® Support	12
OpenGL® Support	4.5
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Clear Video HD Technology	Yes
Intel® Clear Video Technology	Yes
# of Displays Supported	3
Device ID	0x5912

Expansion Options

Scalability	15 Only
PCI Express Revision	3.0
PCI Express Configurations	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16

Package Specifications

Sockets Supported	FCLGA1151
Max CPU Configuration	1
Thermal Solution Specification	PCG 2015A (35W)
T _{JUNCTION}	80°C
Package Size	37.5mm x 37.5mm
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Optane™ Memory Supported	Yes
Intel® Turbo Boost Technology	2.0
Intel® vPro™ Technology	Yes
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	Yes
Intel® 64	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.1, Intel® 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
Secure Key	Yes
Intel® Software Guard Extensions (Intel® SGX)	Yes
Intel® Memory Protection Extensions (Intel® MPX)	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology	Yes
Execute Disable Bit	Yes
Intel® Boot Guard	Yes

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

Product Support

Downloads and Software

Support Community

Warranty and Replacement

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