



Intel® Core™ i7-7700T Processor

8M Cache, up to 3.80 GHz

Product Collection	7th Generation Intel® Core™ i7 Processors	Status	Launched
Launch Date	Q1'17	Max Turbo Frequency	3.80 GHz
Processor Base Frequency	2.90 GHz	Cache	8 MB SmartCache
Processor Graphics ‡	Intel® HD Graphics 630	# of Cores	4

Ordering and spec information

Boxed Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C, Box	
Spec Code	SR339
Ordering Code	BX80677I77700T
Step	Bo
RCP	\$312.00
Boxed Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C, Box China	
Spec Code	SR339
Ordering Code	BXC80677I77700T
Step	Bo
Intel® Core™ i7-7700T Processor (8M Cache, up to 3.80 GHz) FC-LGA14C, Tray	
Spec Code	SR339
Ordering Code	CM8067702868416
Step	Bo
RCP	\$303.00

Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

PCN/MDDS Information

SR339	
953005	PCN MDDS
954222	MDDS
954229	MDDS

Essentials

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Product Collection	7th Generation Intel® Core™ i7 Processors
Vertical Segment	Desktop
Status	Launched
Lithography ?	14 nm


Code Name	Products formerly Kaby Lake
Processor Number	i7-7700T
Launch Date ?	Q1'17
Recommended Customer Price ?	\$303.00 - \$312.00

Performance

# of Cores ?	4
Processor Base Frequency ?	2.90 GHz
Cache ?	8 MB SmartCache
# of QPI Links ?	0
Configurable TDP-down Frequency ?	1.90 GHz

# of Threads ?	8
Max Turbo Frequency ?	3.80 GHz
Bus Speed ?	8 GT/s DMI3
TDP ?	35 W
Configurable TDP-down ?	25 W

Supplemental Information

Embedded Options Available ? 	Yes
Datasheet	View now


Conflict Free ?	Yes
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Learn how Intel is pursuing conflict-free technology.




Memory Specifications

Max Memory Size (dependent on memory type) ?	64 GB
Max # of Memory Channels ?	2

Memory Types ?	DDR4-2133/2400, DDR3L-1333/1600 @ 1.35V
ECC Memory Supported † ? 	No

Intel® Platform Protection Technology

OS Guard	Yes
Execute Disable Bit † ?	Yes

Trusted Execution Technology † ? 	Yes
Intel® Device Protection Technology with Boot Guard ?	Yes

Graphics Specifications

Processor Graphics ‡ ?	Intel® HD Graphics 630	Graphics Base Frequency ?	350.00 MHz
Graphics Max Dynamic Frequency ?	1.15 GHz	Graphics Video Max Memory ?	64 GB
4K Support ?	Yes, at 60Hz	Max Resolution (HDMI 1.4)‡ ?	4096x2304@24Hz
Max Resolution (DP)‡ ?	4096x2304@60Hz	Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@60Hz
DirectX* Support ?	12	OpenGL* Support ?	4.4
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



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Expansion Options

Scalability	1S 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

Intel® Data Protection Technology

Intel® AES New Instructions ? ?	Yes	Secure Key ?	Yes
Intel® Software Guard Extensions (Intel® SGX) ?	Yes	Intel® Memory Protection Extensions (Intel® MPX) ?	Yes

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