



Intel® Core™ i7-7700 Processor

8M Cache, up to 4.20 GHz

Ordering and spec information

Boxed Intel® Core™ i7-7700 Processor (8M Cache, up to 4.20 GHz) FC-LGA14C, Box

Spec Code SR338

Ordering Code BX80677I77700

Step B0

RCP \$312.00

Boxed Intel® Core™ i7-7700 Processor (8M Cache, up to 4.20 GHz) FC-LGA14C, Box China

Spec Code SR338

Ordering Code BXC80677I77700

Step B0

Intel® Core™ i7-7700 Processor (8M Cache, up to 4.20 GHz) FC-LGA14C, Tray

Spec Code SR338

Ordering Code CM8067702868314

Step B0

RCP \$303.00

Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

PCN/MDDS Information

SR338	
953004	PCN MDDS
953654	PCN MDDS
953712	PCN MDDS

Essentials


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Product Collection	7th Generation Intel® Core™ i7 Processors	Code Name	Products formerly Kaby Lake
Vertical Segment	Desktop	Processor Number	i7-7700
Status	Launched	Launch Date ?	Q1'17
Lithography ?	14 nm	Recommended Customer Price ?	\$303.00 - \$312.00

Performance

# of Cores ?	4	# of Threads ?	8
Processor Base Frequency ?	3.60 GHz	Max Turbo Frequency ?	4.20 GHz
Cache ?	8 MB SmartCache	Bus Speed ?	8 GT/s DMI3
# of QPI Links ?	0	TDP ?	65 W

Supplemental Information

Embedded Options Available ? 	Yes	Conflict Free ?	Yes
Datasheet	View now		

Learn how Intel is pursuing conflict-free technology.



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

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 2015C (65W)	T _{JUNCTION} ?	100°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

Advanced Technologies

Intel® Optane™ Memory Supported † ?	Yes
Intel® vPro Technology † ?	Yes
Intel® Virtualization Technology (VT-x) † ?	Yes
Intel® VT-x with Extended Page Tables (EPT) † ?	Yes
Intel® 64 † ?	Yes
Instruction Set Extensions ? SSE4.1/4.2, AVX 2.0	
Enhanced Intel SpeedStep® Technology ?	Yes
Intel® Identity Protection Technology † ?	Yes

Intel® Turbo Boost Technology † ?	2.0
Intel® Hyper-Threading Technology † ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Yes
Intel® TSX-NI ?	Yes
Instruction Set ?	64-bit
Idle States ?	Yes
Thermal Monitoring Technologies ?	Yes
Intel® Stable Image Platform Program (SIPP) ?	Yes

Intel® Platform Protection Technology

OS Guard	Yes
Execute Disable Bit † ?	Yes

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