

# Intel® Core™ i5-7500 Processor

Status

Cache

# of Cores

6M Cache, up to 3.80 GHz

Product Collection 7th Generation Intel® Core™ i5

Processors

Launch Date Q1'17

Processor Base Frequency 3.40 GHz

Processor Graphics <sup>‡</sup> Intel® HD Graphics 630

#### Ordering and spec information

Ordering and specimormation	
Boxed Intel® Core™ i5-7500 Processor (6M Cache, up to 3.80 GHz) FC-LGA14C, Box	
Spec Code	SR335
Ordering Code	BX80677I57500
Step	ВО
RCP	\$202.00
Boxed Intel <sup>®</sup> Core™ i5-7500 Processor GHz) FC-LGA14C, Box China	(6M Cache, up to 3.80
Spec Code	SR335
Ordering Code	BXC80677I57500
Step	ВО
Intel <sup>®</sup> Core™ i5-7500 Processor (6M Co LGA14C, Tray	ache, up to 3.80 GHz) FC-
Spec Code	SR335
Ordering Code	CM8067702868012
Step	ВО
RCP	\$192.00

#### Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

Max Turbo Frequency 3.80 GHz

Launched

6 MB SmartCache

#### PCN/MDDS Information

SR335	
953001	PCN   MDDS
953683	PCN   MDDS
953703	PCN   MDDS

#### Essentials

Product Collection	7th Generation Intel <sup>®</sup> Core™ i5 Processors
Vertical Segment	Desktop
Status	Launched
Lithography ?	14 nm

#### Export specifications

Code Name	Products formerly Kaby Lake
Processor Number	i5-7500
Launch Date ?	Q1'17
Recommended Customer Price ?	\$192.00 - \$202.00

#### Performance



# of Threads ?	4
Max Turbo Frequency ?	3.80 GHz
Bus Speed ?	8 GT/s DMI3
TDP ?	65 W

#### Supplemental Information



Conflict Free ? Yes

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 @ 1.3	5V
ECC Memory Supporte	ed <sup>‡</sup> ? Q	No

### **Graphics Specifications**

Processor Graphics † ?	Intel <sup>®</sup> HD Graphics 630
Graphics Max Dynamic Frequency ?	1.10 GHz
4K Support ?	Yes, at 60Hz
Max Resolution (DP)‡ ?	4096x2304@60Hz
DirectX* Support ?	12
Intel® Quick Sync Video ? Q	Yes
Intel® Clear Video HD Technology ?	Yes
# of Displays Supported ‡	3

Graphics Base Frequency ?	350.00 MHz
Graphics Video Max Memory ?	64 GB
Max Resolution (HDMI 1.4)‡ ?	4096x2304@24Hz
Max Resolution (eDP - Integrated Flat Panel)‡ ?	4096x2304@60Hz
OpenGL* Support ?	4.4
Intel® InTru™ 3D Technology ?	Yes
Intel® Clear Video Technology ?	Yes
Device ID	0x5912



Optimize popular games to play on Intel Graphics

#### **Expansion Options**

Scalability	1S Only
PCI Express Configurations † ?	Up to 1x16, 2x8, 1x8+2x4

PCI Express Revision ?	3.0
Max # of PCI Express Lanes ?	16

## Package Specifications

Sockets Supported ?	FCLGA1151
Thermal Solution Specification ?	PCG 2015C (65W)
Package Size	37.5mm x 37.5mm

Max CPU Configuration	1
T <sub>JUNCTION</sub> ?	100°C
Low Halogen Options Available	See MDDS

#### Advanced Technologies

Yes
Yes
Yes
Yes
64-bit
Yes
Yes
Yes

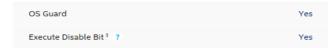
Intel® Turbo Boost Technology ‡ ?	2.0
Intel® Virtualization Technology (VT-x) † ?	Yes
Intel® VT-x with Extended Page Tables (EPT) * ? Q	Yes
Intel® 64 ‡ ? Q	Yes
Instruction Set Extensions ? SSE4.1/4.2	, AVX 2.0
Enhanced Intel SpeedStep® Technology ? Q	Yes
Intel® Identity Protection Technology ‡ ?	Yes

## Intel® Data Protection Technology



Secure Key ?	Yes
Intel® Memory Protection Extensions (Intel® MPX) ?	Yes

## Intel® Platform Protection Technology



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

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