

Intel Core i5-7500 processor 3.4 GHz 6 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX80677157500

Product name : i5-7500

Intel® Core™ i5-7500 Processor
(6M Cache, up to 3.80 GHz)

Intel Core i5-7500. Processor family: Intel® Core™ i5, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 630, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.8 GHz



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor generation	7th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-7500	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.4 GHz	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor cores *	4	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Core i5-7500 Desktop Series	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor threads	4	Intel® Turbo Boost Technology 2.0 frequency	3.8 GHz
System bus rate	8 GT/s	Intel® Transactional Synchronization Extensions	✓
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	3.8 GHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Processor cache	6 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel® Secure Key	✓
Thermal Design Power (TDP)	65 W	Intel TSX-NI	✓
Box *	✓	Intel Stable Image Platform Program (SIPP)	✓
Cooler included *	✓	Intel® OS Guard	✓
Generation	7th Generation	Intel Clear Video Technology	✓
Compatible chipsets	Intel® B150, Intel® H110, Intel Q150, Intel® Q170, Intel® Z170	Intel Software Guard Extensions (Intel SGX)	✓
Stepping	B0	Intel 64	✓
Bus type	DMI3	Intel Identity Protection Technology version	1.00
Processor codename	Kaby Lake	Intel Secure Key Technology version	1.00
Processor code	SR335	Intel Stable Image Platform Program (SIPP) version	1.00
Processor ARK ID	97123	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600,2133,2400 MHz		
Memory voltage supported by processor	1.35 V		
Memory channels *	Dual-channel		
ECC	✗		
Graphics			
On-board graphics card *	✓		

Graphics		Processor special features	
On-board graphics card model *	Intel® HD Graphics 630	Intel TSX-NI version	1.00
Maximum on-board graphics card memory	64 GB	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Intel® Optane™ Memory Ready	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Intel® Boot Guard	✓
Number of displays supported (on-board graphics)	3	Intel® vPro™ Platform Eligibility	✓
On-board graphics card 4K support	✓	Operational conditions	
On-board graphics card DirectX version	12.0	Tjunction	100 °C
On-board graphics card OpenGL version	4.5	Technical details	
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Bus bandwidth	8
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Launch date	Q1'17
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card ID	5912	Processor cache	6144 KB
Features		Product type	Processor
Execute Disable Bit	✓	Status	Launched
Idle States	✓	Maximum memory	64 GB
Thermal Monitoring Technologies	✓	Processor brand name	7th Gen Intel Core i5 processors
Market segment	Desktop	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Maximum number of PCI Express lanes	16	Last change	63903513
PCI Express slots version	3.0	Product family	7th Generation Intel Core i5 Processors
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	8 GT/s
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Maximum graphics card memory	64 GB
Scalability	1S	Processor ID	0x5912
CPU configuration (max)	1	Logistics data	
Embedded options available	✓	Harmonized System (HS) code	8542310001
Thermal solution specification	PCG 2015C	Packaging data	
PCI Express CEM revision	3.0	Package width	70 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	116 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package height	101 mm
		Package weight	337 g
		Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Video decoding	✓



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