



## Intel Core i5-4690T processor 2.5 GHz 6 MB Smart Cache

**Brand :** Intel

**Product family:** Core

**Product code:**  
CM8064601561613

**Product name :** i5-4690T

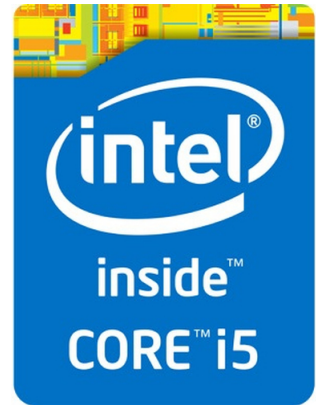
Intel® Core™ i5-4690T Processor  
(6M Cache, up to 3.50 GHz)

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Amazing performance and stunning visuals with a boost. Raise the bar on your PC experience with rich visuals plus an automatic burst of speed when you need it. The 4th generation Intel® Core™ i5 processor delivers amazing performance, stunning visuals, and built-in security for deeper protection.

Discover the thrill of an automatic burst of speed when you need it with Intel® Turbo Boost Technology 2.0. Experience your movies, photos, and games smoothly and seamlessly with a built-in suite of visual enhancements—and enjoy them even more with longer battery life.

Get a boost in your performance that you can truly see and feel, along with extra peace of mind from enhanced security. Because the only thing more amazing than Intel® technology is what you'll do with it.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor generation	4th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-4690T	Intel® My WiFi Technology (Intel® MWT)	✓
Processor base frequency *	2.5 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i5	Intel® Quick Sync Video Technology	✓
Processor cores *	4	Intel® InTru™ 3D Technology	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® Wireless Display (Intel® WiDi)	✓
Component for	PC	Intel FDI Technology	✓
Processor lithography *	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i5-4600 Desktop series	Intel® Insider™	✓
Processor threads	4	Intel® Smart Cache	✓
System bus rate	5 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.5 GHz	Intel Trusted Execution Technology	✓
Processor cache	6 MB	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✗
L3 cache speed	2.5 GHz	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	45 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Generation	4th Generation		
Compatible chipsets	Intel® B85, Intel® H81, Intel® H87, Intel® Q85, Intel® Q87, Intel® Z87		
Stepping	C0		
Bus type	DMI		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Haswell		

Processor		Processor special features	
Processor code	SR1QT	Intel Stable Image Platform Program (SIPP)	✓
Processor ARK ID	80813	Intel® OS Guard	✓
Memory		Intel 64	✓
Maximum internal memory supported by processor	32 GB	Intel Identity Protection Technology version	1.00
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Intel Secure Key Technology version	1.00
Memory clock speeds supported by processor	1333,1600 MHz	Intel Small Business Advantage (SBA) version	1.00
Memory channels *	Dual-channel	Intel Stable Image Platform Program (SIPP) version	1.00
ECC	✗	Intel Virtualization Technology (VT-x)	✓
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel TSX-NI version	0.00
On-board graphics card model *	Intel® HD Graphics 4600	Conflict-Free processor	✓
Maximum on-board graphics card memory	2 GB	Intel® vPro™ Platform Eligibility	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, VGA (D-Sub)	Operational conditions	
On-board graphics card base frequency	350 MHz	Tcase	71.45 °C
On-board graphics card dynamic frequency (max)	1200 MHz	Technical details	
Number of displays supported (on-board graphics)	3	Born on date	Q2'14
On-board graphics card DirectX version	11.1	Bus bandwidth	5
On-board graphics card OpenGL version	4.3	Bus type units	GT/s
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Graphics max dynamic frequency	1.20 GHz
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Launch date	Q2'14
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	3840x2160@60Hz
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	3840x2160@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (VGA)	1920x1200@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Number of graphics cores	20
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz	OpenGL support	✓
On-board graphics card ID	0x412	Processor cache	6144 KB
Features		Product name	Intel Core i5-4690T (6M Cache, up to 3.50 GHz)
Execute Disable Bit	✓	Product type	Processor
Idle States	✓	Status	Discontinued
Thermal Monitoring Technologies	✓	Video compression formats	✓
Market segment	Desktop	Maximum graphics card memory	1740 MB
Maximum number of PCI Express lanes	16	Maximum memory	32 GB
PCI Express slots version	3.0	Processor brand name	Intel Core i5 Intel Core i5 Processor
PCI Express configurations	1x16, 2x8, 1x8+2x4	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Last change	63903513
Bandwidth	5 MB/s	Product family	4th Generation Intel Core i5 Processors
Scalability	1S	Bus speed	5 GT/s
CPU configuration (max)	1	Maximum graphics card memory	2 GB
Embedded options available	✗	Processor ID	0x412
Graphics & IMC lithography	22 nm	Logistics data	
Thermal solution specification	PCG 2013B	Harmonized System (HS) code	8542310001
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB

Features		Other features	
Export Control Classification Number (ECCN)	5A992C	Graphics output	eDP/DP/HDMI/VGA
Commodity Classification Automated Tracking System (CCATS)	G077159	Cache memory	6 MB
		Video decoding	✓
Processor special features			
Intel® Anti-Theft Technology (Intel® AT)	✓		



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