

Intel Core i7-4790S processor 3.2 GHz 8 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8064601561014

Product name : i7-4790S



Intel® Core™ i7-4790S Processor

(8M Cache, up to 4.00 GHz)

Intel Core i7-4790S. Processor family: Intel® Core™ i7, Processor socket: LGA 1150 (Socket H3), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 4600, Maximum on-board graphics card memory: 2 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI, VGA (D-Sub). 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: 4 GHz



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	4th gen Intel® Core™ i7	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i7-4790S	Intel® My WiFi Technology (Intel® MWT)	✓
Processor base frequency *	3.2 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i7	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 i7-4700 Desktop series	Intel® Insider™	✓
Processor threads	8	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✓
Processor boost frequency	4 GHz	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor cache	8 MB	Intel® Transactional Synchronization Extensions	✗
Processor cache type	Smart Cache	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	65 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Generation	4th Generation	Intel Stable Image Platform Program (SIPP)	✓
Stepping	C0	Intel® OS Guard	✓
Bus type	DMI2	Intel 64	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Identity Protection Technology version	1.00
Processor codename	Haswell	Intel Secure Key Technology version	1.00
Processor ARK ID	80808	Intel Small Business Advantage (SBA) version	1.00
Memory		Intel Stable Image Platform Program (SIPP) version	1.00
Maximum internal memory supported by processor	32 GB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel TSX-NI version	0.00
Memory channels *	Dual-channel		
ECC	✗		
Graphics			
On-board graphics card *	✓		
On-board graphics card model *	Intel® HD Graphics 4600		
Maximum on-board graphics card memory	2 GB		

Graphics		Processor special features	
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI, VGA (D-Sub)	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Intel® vPro™ Platform Eligibility	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Operational conditions	
Number of displays supported (on-board graphics)	3	Tcase	71.35 °C
On-board graphics card DirectX version	11.2/12	Technical details	
On-board graphics card OpenGL version	4.3	Bus bandwidth	5
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Bus type units	GT/s
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	Processor cache	8192 KB
On-board graphics card ID	0x412	Product type	Processor
Features		Status	Launched
Execute Disable Bit	✓	Maximum memory	32 GB
Idle States	✓	Processor brand name	Intel Core i7 Intel Core i7 Processor
Thermal Monitoring Technologies	✓	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Market segment	Desktop	Last change	63903513
Maximum number of PCI Express lanes	16	Product family	4th Generation Intel Core i7 Processors
PCI Express slots version	3.0	Bus speed	5 GT/s
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum graphics card memory	2 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor ID	0x412
Scalability	1S	Servicing status	End of Servicing Lifetime
CPU configuration (max)	1	End of servicing updates date	Wednesday, June 30, 2021
Embedded options available	✓	Logistics data	
Graphics & IMC lithography	22 nm	Harmonized System (HS) code	8542310001
Thermal solution specification	PCG 2013C	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
Processor special features		Other features	
Intel® Anti-Theft Technology (Intel® AT)	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Graphics output	eDP/DP/HDMI/DVI/VGA
		Video decoding	✓



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