



HP Intel Core i5-4690S processor 3.2 GHz 6 MB Smart Cache

Brand : HP

Product code: 773083-001

Product name : Intel Core i5-4690S

Intel Core i5-4690S, 6M Cache, 3.2 GHz, 5 GT/s DMI2

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HP Intel Core i5-4690S. Processor family: Intel® Core™ i5, 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. On-board graphics card model: Intel® HD Graphics 4600, Maximum on-board graphics card memory: 2 GB, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub). Market segment: Desktop, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Compatibility: EliteOne 800 G1

Processor		Graphics	
Processor generation	4th gen Intel® Core™ i5	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor model *	i5-4690S	Features	
Processor base frequency *	3.2 GHz	Execute Disable Bit	✓
Processor family *	Intel® Core™ i5	Idle States	✓
Processor cores *	4	Thermal Monitoring Technologies	✓
Processor socket *	LGA 1150 (Socket H3)	Market segment	Desktop
Component for	PC	Maximum number of PCI Express lanes	16
Processor lithography *	22 nm	PCI Express slots version	3.0
Processor series	Intel Core i5-4600 Desktop series	PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor threads	4	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
System bus rate	5 GT/s	Scalability	15
Processor operating modes *	64-bit	CPU configuration (max)	1
Processor boost frequency	3.9 GHz	Embedded options available	✗
Processor cache	6 MB	Graphics & IMC lithography	22 nm
Processor cache type	Smart Cache	Thermal solution specification	PCG 2013C
Thermal Design Power (TDP)	65 W	Processor special features	
Stepping	C0	Intel® Anti-Theft Technology (Intel® AT)	✓
Bus type	DMI2	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory		Intel® My WiFi Technology (Intel® MWT)	✓
Maximum internal memory supported by processor	32 GB	Intel® Turbo Boost Technology	2.0
Memory types supported by processor	DDR3-SDRAM, DDR3L	Intel® Quick Sync Video Technology	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel® InTru™ 3D Technology	✓
Memory voltage supported by processor	1.5 V	Intel® Wireless Display (Intel® WiDi)	✓
Memory channels *	Dual-channel	Intel FDI Technology	✓
ECC	✗	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Graphics		Intel® AES New Instructions (Intel® AES-NI)	✓
On-board graphics card *	✓	Enhanced Intel SpeedStep Technology	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel Trusted Execution Technology	✓
Maximum on-board graphics card memory	2 GB		
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub)		
On-board graphics card base frequency	350 MHz		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1200 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Number of displays supported (on-board graphics)	3	Intel® Secure Key	✓
On-board graphics card DirectX version	11.2/12	Intel TSX-NI	✗
On-board graphics card OpenGL version	4.3	Intel Stable Image Platform Program (SIPP)	✓
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Intel® OS Guard	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Intel® Small Business Advantage (Intel® SBA)	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Intel 64	✓
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Intel Virtualization Technology (VT-x)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Conflict-Free processor	✓
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Intel® vPro™ Platform Eligibility	✓
		Operational conditions	
		Tcase	71.35 °C
		Other features	
		Compatibility	EliteOne 800 G1

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