



HP Intel Core i5-4690 processor 3.5 GHz 6 MB Smart Cache

Brand : HP

Product code: 769737-001

Product name : Intel Core i5-4690

Intel Core i3-4690, 6M Cache, 3.5 GHz, 5 GT/s DMI2

[HP Intel Core i5-4690 processor 3.5 GHz 6 MB Smart Cache:](#)

Options, accessories, services and support for all your HP and Compaq products.

HP Intel Core i5-4690. 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: ProDesk 600 G1

Processor		Graphics	
Processor generation	4th gen Intel® Core™ i5	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor model *	i5-4690	Features	
Processor base frequency *	3.5 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 2013D
Thermal Design Power (TDP)	84 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	72.72 °C
		Other features	
		Compatibility	ProDesk 600 G1

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 26-JUL-2025. Prints or copies of Information are only valid on the printed Publication date