



HP Intel Core i7-4785T processor 2.2 GHz 8 MB Smart Cache

Brand : HP

Product code: 773230-001

Product name : Intel Core i7-4785T

Intel Core i7-4785T, 8M Cache, 2.2 GHz, 5 GT/s DMI2

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HP Intel Core i7-4785T. 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. On-board graphics card model: Intel® HD Graphics 4600, Maximum on-board graphics card memory: 2 GB, On-board graphics card outputs supported: DVI, 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: EliteDesk 800 G1 ProDesk 600 G1

Processor		Graphics	
Processor generation	4th gen Intel® Core™ i7	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor model *	i7-4785T	Features	
Processor base frequency *	2.2 GHz		
Processor family *	Intel® Core™ i7		
Processor cores *	4		
Processor socket *	LGA 1150 (Socket H3)		
Component for	PC		
Processor lithography *	22 nm		
Processor series	Intel Core i7-4700 Desktop series		
Processor threads	8		
System bus rate	5 GT/s		
Processor operating modes *	64-bit		
Processor boost frequency	3.2 GHz		
Processor cache	8 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	35 W		
Stepping	C0		
Bus type	DMI2		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Memory		Execute Disable Bit	
Maximum internal memory supported by processor	32 GB	Idle States	
Memory types supported by processor	DDR3-SDRAM, DDR3L	Thermal Monitoring Technologies	
Memory clock speeds supported by processor	1333,1600 MHz	Market segment	
Memory voltage supported by processor	1.5 V	Maximum number of PCI Express lanes	
Memory channels *	Dual-channel	PCI Express slots version	
ECC	✗	PCI Express configurations	
Graphics		Supported instruction sets	
On-board graphics card *	✓	Scalability	
On-board graphics card model *	Intel® HD Graphics 4600	CPU configuration (max)	
Maximum on-board graphics card memory	2 GB	Embedded options available	
On-board graphics card outputs supported	DVI, DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub)	Graphics & IMC lithography	
		Thermal solution specification	
		Processor special features	
		Intel® Anti-Theft Technology (Intel® AT)	
		Intel® Hyper Threading Technology (Intel® HT Technology)	
		Intel® Identity Protection Technology (Intel® IPT)	
		Intel® My WiFi Technology (Intel® MWT)	
		Intel® Turbo Boost Technology	
		Intel® Quick Sync Video Technology	
		Intel® InTru™ 3D Technology	
		Intel® Wireless Display (Intel® WiDi)	
		Intel FDI Technology	
		Intel® Clear Video HD Technology (Intel® CVT HD)	
		Intel® AES New Instructions (Intel® AES-NI)	
		Enhanced Intel SpeedStep Technology	
		Intel Trusted Execution Technology	

Graphics		Processor special features	
On-board graphics card base frequency	350 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® Secure Key	✓
Number of displays supported (on-board graphics)	3	Intel TSX-NI	✗
On-board graphics card DirectX version	11.2/12	Intel Stable Image Platform Program (SIPP)	✓
On-board graphics card OpenGL version	4.3	Intel® OS Guard	✓
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Intel® Small Business Advantage (Intel® SBA)	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Intel 64	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Intel Virtualization Technology (VT-x)	✓
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Conflict-Free processor	✓
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Intel® vPro™ Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz		
		Operational conditions	
		Tcase	66.35 °C
		Other features	
		Compatibility	EliteDesk 800 G1 ProDesk 600 G1

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