HP Intel Core i7-3770S processor 3.1 GHz 8 MB L3 Tray

Brand : HP

Product code: 689370-001

Product name : Intel Core i7-3770S

Intel® Core™ i7-3770S Processor (8M Cache, up to 3.90 GHz)
HP Intel Core i7-3770S. Processor family: Intel® Core™ i7, Processor socket: LGA 1155 (Socket H2), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics 4000, On-board graphics card base frequency: 650 MHz, On-board graphics card dynamic frequency (max): 1150 MHz. PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: AVX, SSE4.1, SSE4.2, Thermal solution specification: PCG 2011C. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor	
Processor generation	3rd gen Intel® Core™ i7
Processor model *	i7-3770S
Processor base frequency *	3.1 GHz
Processor family *	Intel® Core™ i7
Processor cores *	4
Processor socket *	LGA 1155 (Socket H2)
Processor lithography *	22 nm
Processor threads	8
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.9 GHz
Processor cache	8 MB
Processor cache type	L3
Thermal Design Power (TDP)	65 W
Package type *	Tray
Stepping	E1
Memory bandwidth supported by processor (max)	25.6 GB/s

Memory	
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	1333,1600 MHz
Memory channels *	Dual-channel
ECC	✗

Graphics	
On-board graphics card *	✓
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Number of displays supported (on-board graphics)	3

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓

Features	
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
Supported instruction sets	AVX, SSE4.1, SSE4.2
Embedded options available	✗
Thermal solution specification	PCG 2011C

Processor special features	
Intel® Anti-Theft Technology (Intel® AT)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Turbo Boost Technology	2.0
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® Insider™	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	69.1 °C

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

Features	
Maximum number of PCI Express lanes	16

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