



HP Intel Core i5-650 processor 3.2 GHz 4 MB L3

Brand : HP

Article code: 604614-001

Product name : Intel Core i5-650



Intel® Core™ i5-650 Processor (4M Cache, 3.20 GHz)

HP Intel Core i5-650. Processor family: Intel® Core™ i5, Processor socket: LGA 1156 (Socket H), Processor lithography: 32 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 16 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics, On-board graphics card base frequency: 733 MHz. PCI Express configurations: 1x16, 2x8, Number of Processing Die Transistors: 382 M, Processing Die size: 81 mm². Intel® Virtualization Technology (Intel® VT): VT-x

Processor		Features	
Processor generation	Intel® Core™ i5	Maximum number of PCI Express lanes	16
Processor model *	i5-650	PCI Express slots version	2.0
Processor base frequency *	3.2 GHz	PCI Express configurations	1x16, 2x8
Processor family *	Intel® Core™ i5	Number of Processing Die Transistors	382 M
Processor cores *	2	Processing Die size	81 mm ²
Processor socket *	LGA 1156 (Socket H)	Number of Graphics & IMC Die Transistors	177 M
Processor lithography *	32 nm	Graphics & IMC Die Size	114 mm ²
Processor threads	4	Supported instruction sets	SSE4.2
System bus rate	2.5 GT/s	Embedded options available	✗
Processor operating modes *	64-bit	Graphics & IMC lithography	45 nm
Processor boost frequency	3.46 GHz	Processor special features	
Processor cache	4 MB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache type	L3	Intel® Turbo Boost Technology	✓
Thermal Design Power (TDP)	73 W	Intel FDI Technology	✓
Box *	✗	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory bandwidth supported by processor (max)	21 GB/s	Intel® Smart Cache	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory supported by processor	16 GB	Enhanced Intel SpeedStep Technology	✓
Memory types supported by processor	DDR3-SDRAM	Intel Trusted Execution Technology	✓
Memory clock speeds supported by processor	1066,1333 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory channels *	Dual-channel	Intel Demand Based Switching	✗
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel® vPro™ Platform Eligibility	✓
On-board graphics card model *	Intel® HD Graphics	Operational conditions	
On-board graphics card base frequency	733 MHz	Tcase	72.6 °C
Number of displays supported (on-board graphics)	2	Other features	
Features		Intel® Virtualization Technology (Intel® VT)	VT-x
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✗		

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