HP Intel Xeon X5677 processor 3.46 GHz 12 MB L3 Tray

Brand : HP

Product code: 614738-001

Product name : Intel Xeon X5677

Intel Xeon X5677 (12M Cache, 3.46 GHz, 6.40 GT/s Intel QPI)
HP Intel Xeon X5677. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: Socket B (LGA 1366), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 288 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor	
Processor model *	X5677
Processor base frequency *	3.46 GHz
Processor family *	Intel® Xeon® 5000 Sequence
Processor cores *	4
Processor socket *	Socket B (LGA 1366)
Component for	Server/workstation
Processor lithography *	32 nm
Processor threads	8
System bus rate	6.4 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.73 GHz
Processor cache	12 MB
Processor cache type	L3
Thermal Design Power (TDP)	130 W
Package type *	Tray
VID Voltage Range	0.75 - 1.35 V
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	32 GB/s

Memory	
Maximum internal memory supported by processor	288 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333 MHz
Memory channels *	Triple-channel
ECC	✔

Graphics	
On-board graphics card *	✘

Features	
Execute Disable Bit	✔
Idle States	✔
Market segment	Server
Supported instruction sets	SSE4.2
Physical Address Extension (PAE)	✔

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	✔
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔

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

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