HP Intel Xeon E5540 processor 2.53 GHz 8 MB Smart Cache

Brand : HP

Product code: 484425-001

Product name : Intel Xeon E5540

Intel Xeon E5540, 8M Cache, 2.53 GHz, 5.86 GT/s QPI

HP Intel Xeon E5540 processor 2.53 GHz 8 MB Smart Cache:

Options, accessories, services and support for all your HP and Compaq products.
HP Intel Xeon E5540. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: Socket B (LGA 1366), Processor lithography: 45 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 144 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Number of Processing Die Transistors: 731 M, Processing Die size: 263 mm². Compatibility: BL460C G6

Processor	
Processor model *	E5540
Processor base frequency *	2.53 GHz
Processor family *	Intel® Xeon® 5000 Sequence
Processor cores *	4
Processor socket *	Socket B (LGA 1366)
Component for	Server/workstation
Processor lithography *	45 nm
Processor series	Intel Xeon 5000 Series
Processor threads	8
System bus rate	5.86 GT/s
Processor operating modes *	64-bit
Processor boost frequency	2.8 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	80 W
VID Voltage Range	0.75 - 1.35 V
Stepping	D0
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	25.6 GB/s

Memory	
Maximum internal memory supported by processor	144 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066 MHz
Memory channels *	Triple-channel
ECC	✔

Graphics	
On-board graphics card *	✘

Features	
Execute Disable Bit	✔
Idle States	✔
Market segment	Server
Number of Processing Die Transistors	731 M
Processing Die size	263 mm²
Physical Address Extension (PAE)	✔
CPU configuration (max)	2
Embedded options available	✔
Physical Address Extension (PAE)	40 bit

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	1.0
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔

Operational conditions	
Tcase	76 °C

Other features	
Compatibility	BL460C G6

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