



HP Intel Xeon E5540 processor 2.53 GHz 8 MB L3

Brand : HP

Product code: NF150AA

Product name : Intel Xeon E5540



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

HP Intel Xeon E5540. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: Socket B (LGA 1366), Processor lithography: 45 nm. Maximum internal memory supported by processor: 144 GB, Memory types supported by processor: DDR3-SDRAM, Memory clock speeds supported by processor: 800,1066 MHz. Market segment: Server, Number of Processing Die Transistors: 731 M, Processing Die size: 263 mm². Processor package size: 42.5 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor model *	E5540	Execute Disable Bit	✓
Processor base frequency *	2.53 GHz	Idle States	✓
Processor family *	Intel® Xeon® 5000 Sequence	Market segment	Server
Processor cores *	4	Number of Processing Die Transistors	731 M
Processor socket *	Socket B (LGA 1366)	Processing Die size	263 mm ²
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	45 nm	Embedded options available	✓
Processor threads	8	Processor special features	
System bus rate	5.86 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	✓
Processor boost frequency	2.8 GHz	Intel® Smart Cache	✓
Processor cache	8 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	80 W	Intel Demand Based Switching	✓
VID Voltage Range	0.75 - 1.35 V	Intel Virtualization Technology (VT-x)	✓
Stepping	D0	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Operational conditions	
Number of QPI links	2	Tcase	76 °C
Memory bandwidth supported by processor (max)	25.6 GB/s	Weight & dimensions	
Memory		Processor package size	42.5 mm
Maximum internal memory supported by processor	144 GB	Other features	
Memory types supported by processor	DDR3-SDRAM	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Memory clock speeds supported by processor	800,1066 MHz		
ECC	✓		
Graphics			
On-board graphics card *	✗		



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