

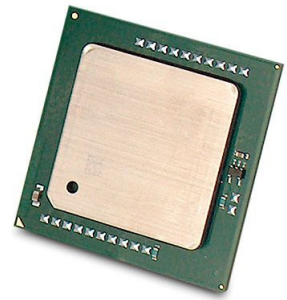


HP Intel Xeon W5580 processor 3.2 GHz 8 MB L3

Brand : HP

Product code: NF154AA

Product name : Intel Xeon W5580



Intel Xeon W5580, 3.20 GHz, 6.40 GT/s, 8 MB L3, 45 nm

HP Intel Xeon W5580. 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. Processor package size: 45 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Graphics	
Processor model *	W5580	On-board graphics card *	✗
Processor base frequency *	3.2 GHz	Features	
Processor family *	Intel® Xeon® 5000 Sequence	Execute Disable Bit	✓
Processor cores *	4	Idle States	✓
Processor socket *	Socket B (LGA 1366)	Market segment	Server
Component for	Server/workstation	Number of Processing Die Transistors	731 M
Processor lithography *	45 nm	Processing Die size	263 mm ²
Processor threads	8	CPU configuration (max)	2
System bus rate	6.4 GT/s	Processor special features	
Processor operating modes *	64-bit	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3.46 GHz	Intel® Turbo Boost Technology	✓
Processor cache	8 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	130 W	Intel Demand Based Switching	✓
VID Voltage Range	0.72 - 1.35 V	Intel Virtualization Technology (VT-x)	✓
Stepping	D0	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Operational conditions	
CPU multiplier (bus/core ratio)	24	Tcase	67 °C
Number of QPI links	2	Weight & dimensions	
Memory bandwidth supported by processor (max)	32 GB/s	Processor package size	45 mm
Memory		Other features	
Maximum internal memory supported by processor	144 GB	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333 MHz		
Memory channels *	Triple-channel		
ECC	✓		



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