



# HP Intel Xeon X5650, HPM FIO processor 2.66 GHz 12 MB L3

Brand : HP

Product code: 605555-B21

Product name : Intel Xeon X5650, HPM FIO

Intel Xeon X5650, (12M Cache, 2.66GHz, 6.4GT/s Intel QPI), HPM Factory Installation Option

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## Intel Virtualization Technology (VT-x)

Intel Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.



## Intel 64

Intel 64 architecture delivers 64-bit computing on server, workstation, desktop and mobile platforms when combined with supporting software. Intel 64 architecture improves performance by allowing systems to address more than 4 GB of both virtual and physical memory.

Processor		Graphics	
Processor model *	X5650	On-board graphics card *	✗
Processor base frequency *	2.66 GHz	<b>Features</b>	
Processor family *	Intel® Xeon® 5000 Sequence	Execute Disable Bit	✓
Processor cores *	6	Idle States	✓
Processor socket *	Socket B (LGA 1366)	Market segment	Server
Component for	Server/workstation	Supported instruction sets	SSE4.2
Processor lithography *	32 nm	<b>Processor special features</b>	
Processor threads	12	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	6.4 GT/s	Intel® Turbo Boost Technology	✓
Processor operating modes *	32-bit, 64-bit	Intel® Smart Cache	✓
Processor boost frequency	3.06 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	12 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	L3	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	95 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.75 - 1.35 V	Intel Demand Based Switching	✓
Bus type	QPI	Intel Virtualization Technology (VT-x)	✓
Number of QPI links	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	32 GB/s	<b>Operational conditions</b>	
<b>Memory</b>		Tcase	81.3 °C
Maximum internal memory supported by processor	288 GB	<b>Other features</b>	
Memory types supported by processor	DDR3-SDRAM	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Memory clock speeds supported by processor	800,1066,1333 MHz		
Memory channels *	Triple-channel		
ECC	✓		

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