

## Intel Xeon E5603 processor 1.6 GHz 4 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
AT80614006954AA

**Product name :** E5603

Intel® Xeon® Processor E5603

(4M Cache, 1.60 GHz, 4.80 GT/s Intel® QPI)

Intel Xeon E5603. Processor family: Intel® Xeon® 5000 Sequence, Processor socket: LGA 1366 (Socket B), 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, Physical Address Extension (PAE): 40 bit. Package type: Retail box. Processor package size: 42.5mm x 45mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E5603	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	1.6 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® 5000 Sequence	Intel Enhanced Halt State	✓
Processor cores *	4	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 1366 (Socket B)	Intel Demand Based Switching	✓
Component for	Server/workstation	Intel 64	✓
Processor lithography *	32 nm	Intel Virtualization Technology (VT-x)	✓
Processor series	Intel Xeon 5600 Series	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor threads	4		
System bus rate	4.8 GT/s		
Processor operating modes *	64-bit		
Processor cache	4 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	80 W		
Box *	✗		
Cooler included *	✗		
VID Voltage Range	0.75 - 1.35 V		
Stepping	B1		
Bus type	QPI		
CPU multiplier (bus/core ratio)	12		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Westmere EP		
Processor ARK ID	52584		
		Technical details	
		Born on date	Q1'11
		Bus bandwidth	4.8
		Bus type units	GT/s
		Launch date	Q1'11
		Processor cache	4096 KB
		Processor core voltage	0.750-1.350 V
		Product name	Intel Xeon E5603 (4M Cache, 1.60 GHz, 4.80 GT/s Intel QPI)
		Product type	Processor
		Status	Discontinued
		Maximum memory	288 GB
		Processor brand name	Intel Xeon
		Supported memory types	DDR3-SDRAM
		Last change	63903513
		Product family	Intel Xeon Processor 5000 Sequence
		Bus speed	4.8 GT/s
		Logistics data	
		Harmonized System (HS) code	8542310001
		Packaging data	
		Package type	Retail box
Memory			
Maximum internal memory supported by processor	288 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		Weight & dimensions	
Execute Disable Bit	✓	Processor package size	42.5mm x 45mm
Idle States	✓	<b>Other features</b>	
Thermal Monitoring Technologies	✗	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Market segment	Server		Intel Server Board S5520UR Intel Server Board S5520HC Intel Workstation Board S5520SC Intel Server Board S5500BC Intel Server Board S5500WB Intel Server Board S5500HCV Intel Server Board S5500HV Intel Server Board S5500WB12V Intel Compute Module MF5520VIR Intel Server Board S5520HCT Intel Server Board S5520URT Intel Server System SR1670HV Intel Server System SR1680MV Intel Workstation System SC5650SCWS Intel Server System SR1630BCR Intel Server System SC5650BCDPR Intel Server System SR2625URLXR Intel Server System SR2625URLXT Intel Server System SR2625URBRPR Intel Server System SR1600URR Intel Server System SR1600URHSR Intel Server System SR1625URR Intel Server System SR1625URSASR Intel Server System SR2600URBRPR Intel Server System SR2600URLXR Intel Server System SR2600URSATAR Intel Server System SR2612URR Intel Server System SR1695WBAC Intel Server System SR1695WBDC Intel Server System SR1690WBR
Supported instruction sets	SSE4.2		
CPU configuration (max)	2		
Embedded options available	✗		
Physical Address Extension (PAE)	40 bit		
Export Control Classification Number (ECCN)	5A992C		
Commodity Classification Automated Tracking System (CCATS)	G077159		
<b>Processor special features</b>			
Intel® Hyper Threading Technology (Intel® HT Technology)	✗	Compatibility	
Intel® Turbo Boost Technology	✗		
		Maximum internal memory	288 GB
		Maximum internal memory	294912 MB
		Cache memory	4 MB

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