

## Intel® Xeon® Processor E5603

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

## Specifications

Export specifications

ECC Memory Supported ‡

Export specifications	
Essentials	
Product Legacy Intel® Xeon® Processors Collection	
Code Products formerly Westmere EP Name	
Vertical Segment	Server
Processor Number	E5603
Status	Discontinued
Launch Date	Q1'11
Lithography	32 nm
Recommended Customer Price	\$188.00 - \$195.00
CPU Specifications	
# of Cores	4
# of Threads	4
Processor Base Frequency	1.60 GHz
Cache	4 MB Intel® Smart Cache
Bus Speed	4.8 GT/s
# of QPI Links	2
TDP	80 W
VID Voltage Range	0.750V-1.350V
Supplemental Information  Embedded Options Available	No
Datasheet View now	
Memory Specifications	
Max Memory Size (dependent on memory type)	288 GB
Memory Types	DDR3 800/1066
Max # of Memory Channels	3
Max Memory Bandwidth	25.6 GB/s
Physical Address Extensions	40-bit

Yes

## **Package Specifications**

0.34.3	
Sockets Supported	FCLGA1366
Max CPU Configuration	2
Package Size	42.5mm X 45mm
Advanced Technologies	
Intel® Turbo Boost Technology ‡	No
Intel® Hyper-Threading Technology ‡	No
Intel® Virtualization Technology (VT-x) †	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® SSE4.2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	Yes
Thermal Monitoring Technologies	No
Security & Reliability	
Intel® AES New Instructions	Yes

Yes

Yes

Ordering and Compliance

Execute Disable Bit ‡

Intel® Trusted Execution Technology ‡

**Product Images** 

Compatible Products

Drivers and Software

**Technical Documentation** 

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

 $System\ and\ Maximum\ TDP\ is\ based\ on\ worst\ case\ scenarios.\ Actual\ TDP\ may\ be\ lower\ if\ not\ all\ I/Os\ for\ chipsets\ are\ used.$ 

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading

for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

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