Intel® Xeon® Processor E5603

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

Specifications

Export specifications

Essentials

Product Collection	Legacy Intel® Xeon® Processors
Code Name	Products formerly Westmere EP
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
ECC Memory Supported ‡	Yes

Package Specifications

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
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes

Ordering and Compliance

Product Images

Compatible Products

Drivers and Software

Technical Documentation

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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