

Intel® Core™2 Quad Processor

Comparison tables

Processor Number ¹	Cache	Clock Speed	Front Side Bus	Intel® Virtualization Technology (Intel® VT) ³
45 nm				
Q9650	12MB shared L2 ²	3.0 GHz	1333 MHz	✓
Q9550S**	12MB shared L2 ²	2.80 GHz	1333 MHz	✓
Q9550	12MB shared L2 ²	2.80 GHz	1333 MHz	✓
Q9505	6MB shared L2 ²	2.83 GHz	1333 MHz	✓
Q9505S**	6MB shared L2 ²	2.83 GHz	1333 MHz	✓
Q9450	12MB shared L2 ²	2.66 GHz	1333 MHz	✓
Q9400S**	6MB shared L2 ²	2.66 GHz	1333 MHz	✓
Q9400	6MB shared L2 ²	2.66 GHz	1333 MHz	✓
Q9300	6MB shared L2 ²	2.50 GHz	1333 MHz	✓
Q8400S**	4MB shared L2 ²	2.66 GHz	1333 MHz	✓
Q8400	4MB shared L2 ²	2.66 GHz	1333 MHz	✓
Q8300	4MB shared L2 ²	2.50 GHz	1333 MHz	✓
Q8200S**	4MB shared L2 ²	2.33 GHz	1333 MHz	
Q8200	4MB shared L2 ²	2.33 GHz	1333 MHz	

**Indicates 65W TDP

	Q9000 Series	Q8000 Series
Cores	4	4
Manufacturing process	45nm	45nm
L2 shared cache²	12MB/6MB	4MB
System bus	1333 MHz	1333 MHz
SSE instructions	SSE4, SSE3, SSE2, and SSE	SSE4, SSE3, SSE2, and SSE
TDP	65W and 95W	65W and 95W
Intel® Express Chipset	Intel® 3 & 4 Series Express Chipsets	Intel 3 & 4 Series Express Chipsets

¹ Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See www.intel.com/products/processor_number/ for details.

² For the Intel® Core™2 Quad processor, shared L2 cache refers to 12, 8, or 6 MB of L2 cache per core pair.

³ Intel® Virtualization Technology (Intel® VT) requires a computer system with an enabled Intel processor, BIOS, virtual machine monitor (VMM) and, for some uses, certain platform software enabled for it. Functionality, performance or other benefits will vary depending on hardware and software configurations and may require a BIOS update. Software applications may not be compatible with all operating systems. Please check with your application vendor. Not all specified units of this processor support Intel® VT. See the Processor Spec Finder at [Product Specifications and Comparisons](#) or contact your Intel representative for more information.