

## Intel Core 2 Quad Q8400 specifications

### General information

Type	<a href="#">CPU / Microprocessor</a>
Market segment	Desktop
Family	<a href="#">Intel Core 2 Quad</a>
Model number ?	<b><a href="#">Q8400</a></b>
CPU part numbers	<b>AT80580PJ0674ML</b> is an OEM/tray microprocessor <b>AT80580PJ067HL</b> is an OEM/tray microprocessor <b>BX80580Q8400</b> is a boxed processor with fan and heatsink (English version) <b>BXC80580Q8400</b> is a boxed processor with fan and heatsink (Chinese version)

**Frequency ?** **2667 MHz**

**Bus speed ?** **1333 MHz**

**Clock multiplier ?** **8**

Package 775-land Flip-Chip Land Grid Array (FC-LGA8)  
1.48" x 1.48" (3.75 cm x 3.75 cm)

**Socket** **[Socket 775 / LGA775 / T](#)**

Introduction date [Apr 19, 2009](#)

End-of-Life date Last order date is August 26, 2011  
Last shipment date for tray processors is February 10, 2012

Price at introduction \$183

### S-spec numbers

	ES/QS processors	Production processors
Part number	<b><a href="#">QLQN</a></b>	<b><a href="#">SLGT6</a></b>
AT80580PJ0674ML		+
AT80580PJ067HL	+	
BX80580Q8400		+
BXC80580Q8400		+

### Architecture / Microarchitecture

Microarchitecture	Core
Processor core ?	Yorkfield
Core stepping ?	R0 (QLQN, SLGT6)
CPUID	1067A (QLQN, SLGT6)
Manufacturing process	0.045 micron
<b>Data width</b>	<b>64 bit</b>
<b>The number of cores</b>	<b>4</b>
<b>The number of threads</b>	<b>4</b>
Floating Point Unit	Integrated
Level 1 cache size ?	4 x 32 KB 8-way set associative instruction caches 4 x 32 KB 8-way set associative data caches
<b>Level 2 cache size ?</b>	<b>2 x 2 MB 8-way set associative caches (each L2 cache is shared between 2 cores)</b>
Multiprocessing	Uniprocessor

Features	<ul style="list-style-type: none"> <li>▪ MMX instructions</li> <li>▪ SSE / Streaming SIMD Extensions</li> <li>▪ SSE2 / Streaming SIMD Extensions 2</li> <li>▪ SSE3 / Streaming SIMD Extensions 3</li> <li>▪ SSSE3 / Supplemental Streaming SIMD Extensions 3</li> <li>▪ SSE4.1 / Streaming SIMD Extensions 4.1 ?</li> <li>▪ EM64T / Extended Memory 64 technology / Intel 64 ?</li> <li>▪ NX / XD / Execute disable bit ?</li> <li>▪ VT / Virtualization technology ?</li> </ul>
Low power features	<ul style="list-style-type: none"> <li>▪ Enhanced SpeedStep technology ?</li> <li>▪ Stop Grant state ?</li> <li>▪ Halt state</li> <li>▪ Extended Halt state</li> <li>▪ Extended Stop Grant State</li> <li>▪ Sleep state ?</li> <li>▪ Deep Sleep state ?</li> <li>▪ Deeper Sleep state ?</li> </ul>

## Integrated peripherals / components

Integrated graphics	None
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## Electrical / Thermal parameters

V core ?	0.85V - 1.3625V
Minimum/Maximum operating temperature ?	5°C - 71.4°C
<b>Thermal Design Power ?</b>	<b>95 Watt</b>

## Notes on Intel Core 2 Quad Q8400

- Binary compatible with 32-bit x86 software
- Bus frequency is 333 MHz. Because the processor uses Quad Data Rate bus the effective bus speed is 1333 MHz
- Part AT80580PJ0674ML is manufactured in halide-free package
- BXC80580Q8400 is a Chinese version