

## AMD Athlon 64 X2 BE-2300 (rev. G2) specifications

### General information

Type	<a href="#">CPU / Microprocessor</a>
Market segment	Desktop
Family	<a href="#">AMD Athlon 64 X2</a>
Model number <a href="#">?</a>	<a href="#">BE-2300</a>
CPU part numbers	ADH2300IAA5DO is an OEM/tray microprocessor <ul style="list-style-type: none"><li>ADH2300DOBOX is a boxed microprocessor with fan and heatsink</li></ul>
Stepping codes	<a href="#">AAA9G</a> <a href="#">CAA9G</a> <a href="#">NAA9G</a> <a href="#">NAAZG</a>
Frequency <a href="#">?</a>	1900 MHz
Bus speed <a href="#">?</a>	One 1000 MHz 16-bit HyperTransport link (2 GT/s)
Clock multiplier <a href="#">?</a>	9.5
Package	940-pin organic microPGA
Socket	<a href="#">Socket AM2</a>
End-of-Life date	Last order date is 2nd quarter 2008

### Architecture / Microarchitecture

Microarchitecture	K8
Platform	Cartwheel
Processor core <a href="#">?</a>	Brisbane
Core stepping <a href="#">?</a>	BH-G2
CPUID	60FB2
Manufacturing process	0.065 micron silicon-on-insulator (SOI) technology 221 million transistors
Die	118mm <sup>2</sup>
Data width	64 bit
The number of CPU cores	2
The number of threads	2
Floating Point Unit	Integrated
Level 1 cache size <a href="#">?</a>	2 x 64 KB 2-way set associative instruction caches 2 x 64 KB 2-way set associative data caches
Level 2 cache size <a href="#">?</a>	2 x 512 KB 16-way set associative exclusive caches
Physical memory	1 TB
Virtual memory	256 TB
Multiprocessing	Uniprocessor
Extensions and Technologies	<ul style="list-style-type: none"><li>MMX instructions</li><li>Extensions to MMX</li><li>3DNow! technology</li><li>Extensions to 3DNow!</li><li>SSE / Streaming SIMD Extensions</li><li>SSE2 / Streaming SIMD Extensions 2</li><li>SSE3 / Streaming SIMD Extensions 3</li><li>AMD64 / AMD 64-bit technology <a href="#">?</a></li><li>EVP / Enhanced Virus Protection <a href="#">?</a></li><li>AMD-V / AMD Virtualization technology</li></ul>
Low power features	<ul style="list-style-type: none"><li>Cool'n'Quiet technology</li><li>Halt state</li><li>Stop Grant state <a href="#">?</a></li></ul>

### Integrated peripherals / components

Integrated graphics	None
Memory controller	The number of controllers: 1 Memory channels: 2 Supported memory: DDR2-800 Maximum memory bandwidth (GB/s): 12.8
Other peripherals	HyperTransport 2.0 technology with speeds up to 1000 MHz

**Electrical / Thermal parameters**

**Thermal Design Power** ?

**45 Watt**