

AMD Phenom II X4 910e specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD Phenom II X4
Model number [?]	910e
CPU part numbers	HD910EOCK4DGM is an OEM/tray microprocessor <ul style="list-style-type: none">• HD910EOCGMBOX is a boxed microprocessor with fan and heatsink
Stepping codes	AACACAC CACACAC CACDCAC
Frequency [?]	2600 MHz
Bus speed [?]	667 MHz Memory controller One 2000 MHz 16-bit HyperTransport link (4 GT/s)
Clock multiplier [?]	13
Package	938-pin organic micro-PGA
Sockets	Socket AM2+ Socket AM3
Weight	1.4oz / 38.4g
Introduction date	January 25, 2010
Price at introduction	\$169

Architecture / Microarchitecture

Microarchitecture	K10
Platform	Dragon
Processor core [?]	Deneb
Core stepping [?]	RB-C3
CPUID	100F43
Manufacturing process	0.045 micron silicon-on-insulator (SOI) technology 758 million transistors
Die	258mm ²
Data width	64 bit
The number of CPU cores	4
The number of threads	4
Floating Point Unit	Integrated
Level 1 cache size [?]	4 x 64 KB 2-way set associative instruction caches 4 x 64 KB 2-way set associative data caches
Level 2 cache size [?]	4 x 512 KB 16-way set associative exclusive caches
Level 3 cache size	Shared 6 MB 48-way set associative cache
Cache latency ^[1]	3 (L1 cache) 15 (L2 cache) 47 (L3 cache)
Virtual memory	256 TB
Multiprocessing	Uniprocessor
Extensions and Technologies	<ul style="list-style-type: none">• MMX instructions• Extensions to MMX• 3DNow! technology• Extensions to 3DNow!• SSE / Streaming SIMD Extensions• SSE2 / Streaming SIMD Extensions 2• SSE3 / Streaming SIMD Extensions 3• SSE4a [?]• AMD64 / AMD 64-bit technology [?]• EVP / Enhanced Virus Protection [?]• AMD-V / AMD Virtualization technology
Low power features	<ul style="list-style-type: none">• Cool'n'Quiet 3.0• CoolCore Technology [?]

- Dual Dynamic Power Management [?]
- Core C1 and C1E states
- Package S0, S1, S3, S4 and S5 states

Integrated peripherals / components

Integrated graphics	None
Memory controller	The number of controllers: 1 Memory channels: 2 Channel width (bits): 72 Supported memory: DDR2-1066, DDR3-1333 DIMMs per channel: up to 2 Maximum memory bandwidth (GB/s): 21.3
Other peripherals	HyperTransport 3 technology

Electrical / Thermal parameters

V core [?]	0.825V - 1.25V
Maximum operating temperature [?]	55°C - 71°C
Thermal Design Power [?]	65 Watt

Notes on AMD Phenom II X4 910e

[1] - These characteristics were measured on a single CPU, and they can vary slightly for other processors with the same model number