

AMD A8-3870K specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD A8-Series
Model number ?	A8-3870K
CPU part numbers	AD3870WNZ43GX is an OEM/tray microprocessor <ul style="list-style-type: none">AD3870WNGXBOX is a boxed microprocessor with fan and heatsink
Frequency ?	3000 MHz
Package	905-pin organic lidded micro Pin Grid Array (UOF905)
AMD Package number	31012
Socket	Socket FM1
Size	1.57" x 1.57" / 4cm x 4cm
Weight	1.4oz / 39g
Fan/heatsink	FHSA7015B-1268
Introduction date	Dec 20, 2011
Price at introduction	\$135

Architecture / Microarchitecture

Microarchitecture	K10
Platform	Lynx
Processor core ?	Llano
Core stepping ?	LN-B0
CPUID	300F10
Manufacturing process	0.032 micron 1178 million transistors
Die	227mm 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 1 MB 16-way set associative caches
Level 3 cache size	None
Cache latency	3 (L1 cache) 21 (L2 cache)
Multiprocessing	Uniprocessor
Extensions and Technologies	<ul style="list-style-type: none">MMX instructionsExtensions to MMX3DNow! technologyExtensions to 3DNow!SSE / Streaming SIMD ExtensionsSSE2 / Streaming SIMD Extensions 2SSE3 / Streaming SIMD Extensions 3SSE4a ?AMD64 / AMD 64-bit technology ?AMD-V / AMD Virtualization technologyEVP / Enhanced Virus Protection ?
Low power features	PowerNow!

Integrated peripherals / components

Integrated graphics	GPU Type: Radeon HD 6550D Shader cores: 400 Base frequency (MHz): 600
Memory controller	The number of controllers: 1

Memory channels: 2
Supported memory: DDR3-1866
Maximum memory bandwidth (GB/s): 29.9

Other peripherals

- PCI Express 2.0
- Unified Video Decoder 3.0 [?](#)

Electrical / Thermal parameters

V core [?](#) 0.45V - 1.4125V

Maximum operating temperature [?](#) 72.7°C

Thermal Design Power [?](#) **100 Watt**

Notes on AMD A8-3870K

- The processor has unlocked clock multiplier