

AMD Athlon X2 7850 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD Athlon X2
Model number ?	7850
CPU part numbers	AD785ZWCJ2BGH is an OEM/tray microprocessor <ul style="list-style-type: none">AD785ZWCGHBOX is a boxed microprocessor with fan and heatsink
Stepping code	JAAAB AA
Frequency ?	2800 MHz
Clock multiplier ?	14
Package	940-pin organic microPGA
Sockets	Socket AM2 Socket AM2+
Fan/heatsink	CMDK8-7I52D-A15-GP
Introduction date	Apr 28, 2009
Price at introduction	\$69

Architecture / Microarchitecture

Microarchitecture	K10
Platform	Cartwheel
Processor core ?	Kuma
Core stepping ?	DR-B3
CPUID	100F23
Manufacturing process	0.065 micron silicon-on-insulator (SOI) technology 450 million transistors
Die	285mm ²
Data width	64 bit
The number of CPU cores	2
The number of threads	2
Floating Point Unit	Integrated
Level 1 cache size ?	2 x 64 KB 2-way set associative instruction caches 2 x 64 KB 2-way set associative data caches
Level 2 cache size ?	2 x 512 KB 16-way set associative caches
Level 3 cache size	Shared 2 MB 32-way set associative 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 ?EVP / Enhanced Virus Protection ?AMD-V / AMD Virtualization technology
Low power features	<ul style="list-style-type: none">Cool'n'Quiet 2.0CoolCore technology ?Independent Dynamic Core Technology ?Dual Dynamic Power Management ?
Integrated peripherals / components	
Integrated graphics	None
Memory controller	The number of controllers: 1 Memory channels: 2

	Channel width (bits): 64
	Supported memory: DDR2
Other peripherals	HyperTransport 3.0 technology
Electrical / Thermal parameters	
V core [?]	1.2V - 1.25V
Maximum operating temperature [?]	73°C
Thermal Design Power [?]	95 Watt
Notes on AMD Athlon X2 7850	

- The processor has unlocked multiplier