

AMD Athlon II X4 635 (rev. C2) specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD Athlon II X4
Model number ?	635
CPU part numbers	ADX635WFK42GI is an OEM/tray microprocessor <ul style="list-style-type: none">• ADX635WFGIBOX is a boxed microprocessor with fan and heatsink
Stepping codes	AADACAD CADACAD
Frequency ?	2900 MHz
Bus speed ?	667 MHz Memory controller One 2000 MHz 16-bit HyperTransport link
Clock multiplier ?	14.5
Package	938-pin organic micro-PGA
AMD Package number	30261
Sockets	Socket AM2+ Socket AM3
Weight	1.3oz / 38.1g (CPU) 13.3oz / 376.3g (box)
Fan/heatsink	CMDK8-7G52B-A1-GP
Introduction date	January 25, 2010
Price at introduction	\$119
Architecture / Microarchitecture	
Microarchitecture	K10
Processor core ?	Propus
Core stepping ?	BL-C2
CPUID	100F52
Manufacturing process	0.045 micron silicon-on-insulator (SOI) technology
Die	169mm 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 caches
Level 3 cache size	None
Cache latency	3 (L1 cache) 15 (L2 cache)
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 ?• AMD-V / AMD Virtualization technology• EVP / Enhanced Virus Protection ?
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 ?	1.1V - 1.425V
Maximum operating temperature ?	55°C - 71°C
Thermal Design Power ?	95 Watt