

AMD A8-Series A8-3820 AD3820OJZ43GX

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	AMD A8-Series
Model number	A8-3820
CPU part number	AD3820OJZ43GX is an OEM/tray microprocessor
Frequency	2500 MHz
Turbo frequency	2800 MHz
Package	905-pin lidded micro-PGA package
Socket	Socket FM1
Size	1.57" x 1.57" / 4cm x 4cm
Introduction date	Dec 20, 2011 (announcement) January 2012 (availability)

Architecture / Microarchitecture

Microarchitecture	K10
Platform	Lynx
Processor core	Llano
Core stepping	B0
Manufacturing process	0.032 micron
Die size	228mm ²
Data width	64 bit
The number of cores	4
The number of threads	4
Floating Point Unit	Integrated
Level 1 cache size	4 x 64 KB 2-way associative instruction caches 4 x 64 KB 2-way associative data caches
Level 2 cache size	4 x 1 MB 16-way associative cache
Multiprocessing	Uniprocessor
Features	MMX 3DNow! SSE SSE2 SSE3 SSE4a AMD64 technology AMD-V (virtualization) technology Enhanced Virus Protection Turbo Core technology
Low power features	PowerNow!
On-chip peripherals	Dual-channel DDR3 memory controller PCI Express 2.0 HD graphics controller

Electrical/Thermal parameters

Thermal Design Power **65 Watt**

Notes on AMD AD3820OJZ43GX

Integrated Radeon HD 6550D GPU runs at 600 MHz and has 400 shader units
The fastest supported memory is DDR3-1866