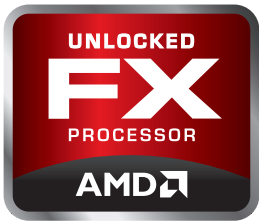


AMD FX Processor Quick Reference Guide

Experience responsive game play and mega-tasking performance with AMD FX Processors.
Get AMD FX in your system.

AMD FX 8-Core Processor Black Edition AMD FX 6-Core Processor Black Edition



Maximum Performance

- More cores, the power you crave, at virtually every price point
 - The industry's only competitively priced 8-core consumer processor
 - Designed for more speed and overall performance
 - Maximum power available from virtually every core configuration
 - Maximum multitasking
 - Aggressive performance for intensive applications like video editing and 3D modeling

Innovative Architecture

- All-new architecture for maximum flexibility and efficiency
 - Delivers advanced performance with lower power requirements
 - Super-fast, unrestrained data flow

Outstanding Price Per Performance

- All AMD FX processors are unlocked to allow the maximum tunable performance¹
 - All AMD FX Processors are unlocked, allowing you to overclock your processor¹

PRODUCT FEATURES

- **World's first** native 8-core desktop processor.
- **Overclocking capabilities** — Unlocked for a big boost in performance and speed.¹
- **"Bulldozer" architecture** — Designed to increase core communication for unparalleled multitasking and pure core performance; also available with 6- and 4-core processors.
- **AMD Turbo CORE Technology** — A burst of speed for the task at hand. Delivers dynamic core performance boosts depending on users' workload at frequencies of up to 900MHz faster.
- **AMD OverDrive™ software** — Tuning controls to push performance to the limits and monitors system stability when overclocking.¹
- **32nm die shrink** — Stable and smooth performance with impressive energy efficiency.
- **Advanced Instruction Support** — accelerates a new generation of applications: SSE3, SSE4.1/4.2, AVX, AES, XOP, FMA4
- **Larger Caches** — increase everyday performance with support up to 8MB L2 Cache and 8MB L3 Cache

OPERATING SYSTEM COMPATIBILITY

The AMD FX Processors are designed to be compatible with Windows® 7, Windows Vista® Home Basic, Windows Vista® Business, Windows Vista® Enterprise, Windows Professional, Microsoft® Windows® XP Home Edition, Windows® XP Media Center Edition, Linux®, and other PC operating systems. Windows® 7 capable PC configuration required for full Windows® 7 functionality.

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AMD FX Processor Product Model Comparisons

Processor	Model	Clock Frequency	AMD Turbo CORE Clock Frequency	System Bus	Package Profile	CMOS Tech	L2 Cache	L3 Cache	TDP	Voltage	Max Temp
AMD FX 8-Core	8150	3.6GHz	4.2GHz	5.2 GT/s	socket AM3+	32nm SOI	8MB	8MB	125W	.9375-1.4125V	61°C
AMD FX 8-Core	8120	3.1GHz	4.0GHz	5.2 GT/s	socket AM3+	32nm SOI	8MB	8MB	125W	.975-1.4125V	61°C
AMD FX 8-Core	8120	3.1GHz	4.0GHz	5.2 GT/s	socket AM3+	32nm SOI	8MB	8MB	95W	.925-1.4125V	70°C
AMD FX 8-Core	8100	2.8GHz	3.7GHz	5.2 GT/s	socket AM3+	32nm SOI	8MB	8MB	95W	0.95-1.4125V	70°C
AMD FX 6-Core	6100	3.3GHz	3.9GHz	5.2 GT/s	socket AM3+	32nm SOI	6MB	8MB	95W	.925-1.4125V	70°C

AMD FX Processor Product Specifications

Cache Sizes	L1 Cache: 128KB, 16 KB/core, 4-way associative, write-through L2 Cache: 8MB, 2 MB/Bulldozer module, 16-way associative L3 Cache: 8MB Shared L3
Process Technology	32-nanometer SOI (silicon-on-insulator) technology; Hi-K Metal Gate(HKMG) process from GlobalFoundries
HyperTransport™ technology links	One 16-bit/16-bit link at up to 5.2GT/s full duplex; or up to 20.8GB/s I/O bandwidth
Memory	Integrated memory controller up to 29.8GB/sec dual channel memory bandwidth
Types of Memory	Support for unregistered DIMMs up to DDR3-1866MHz
Die Size	32nm = 316mm²
Packaging	Socket AM3+ 939-pin organic micro Pin Grid Array (micro-PGA)

Be epic. Be brutal. Experience the new AMD FX Processors at www.amd.com/amdfox

* AMD's product warranty does not cover damage caused by overclocking (even when overclocking is enabled via AMD OverDrive™ software).

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