



AMD FX™ Series Processors *Quick Reference Guide*

Performance	Processor	Socket	# of CPU Cores	# of Threads	Max/ Base Freq (GHz)	Power	L2 Cache (MB)	Total Cache (L2+L3, in MB)	Recommended Graphics Pairing	Unlocked	AMD Overdrive Technology ¹	AMD TurboCore Technology ²	Hypertransport™ Technology	AMD Memory Optimizer	AMD PowerNow™ Technology	Ready for DirectX®12	Cooler	Compare with
↑	AMD FX 9590	AM3+	8	8	5.0/4.7	220W	8	16	Radeon R9 Fury	•	•	•	•	•	•	•	Robust Liquid Cooling Required (Not Included)	Intel Core i5 6600K
	AMD FX 9370	AM3+	8	8	4.7/4.4	220W	8	16	Radeon R9 390X	•	•	•	•	•	•	•	Robust Liquid Cooling Required (Not Included)	Intel Core i5 6600K
	AMD FX 8370	AM3+	8	8	4.3/4	125W	8	16	Radeon RX 480	•	•	•	•	•	•	•	AMD Wraith Cooler	Intel Core i5-6400
	AMD FX 8370e	AM3+	8	8	4.3/3.3	95W	8	16	Radeon RX 480	•	•	•	•	•	•	•	95W AMD Thermal Solution	Intel Core i5-6400
	AMD FX 8350	AM3+	8	8	4.2/4	125W	8	16	Radeon RX 480	•	•	•	•	•	•	•	AMD Wraith Cooler /or/ 125W AMD Thermal Solution	Intel Core i5-6400
	AMD FX 8320	AM3+	8	8	4.0/3.5	125W	8	16	Radeon RX 470	•	•	•	•	•	•	•	125W AMD Thermal Solution	Intel Core i3-6320
	AMD FX 8320e	AM3+	8	8	4.0/3.2	95W	8	16	Radeon RX 470	•	•	•	•	•	•	•	95W AMD Thermal Solution	Intel Core i3-6320
	AMD FX 8300	AM3+	8	8	4.2/3.3	95W	8	16	Radeon RX 460	•	•	•	•	•	•	•	95W AMD Thermal Solution	Intel Core i3-6320
	AMD FX-6350	AM3+	6	6	4.2/3.9	125W	6	14	Radeon RX 470	•	•	•	•	•	•	•	AMD Wraith Cooler	Intel Core i3 4170
	AMD FX 6300	AM3+	6	6	3.5/4.1	95W	6	14	Radeon RX 460	•	•	•	•	•	•	•	95W AMD Thermal Solution	Intel Core i3 4170
	AMD FX 4350	AM3+	4	4	4.3/4.2	125W	8	12	Radeon RX 460	•	•	•	•	•	•	•	125W AMD Thermal Solution	Intel Pentium G4520
	AMD FX 4300	AM3+	4	4	3.8/4.0	95W	8	12	Radeon RX 460	•	•	•	•	•	•	•	95W AMD Thermal Solution	Intel Pentium G4520

Go with AMD FX™ Processors and get more!

- Enjoy the **highest clocks** you can get on a consumer desktop PC with the AMD FX™ processor³
- Benefit from at least **twice as many cores** and **twice as much cache memory** as comparably-priced competition^{4,5}
- Every AMD FX™ desktop processor features an unlocked clock multiplier that you won't find on competing products¹

Additional Information about AMD Features and Technologies:

AMD Overdrive Technology¹

The AMD OverDrive™ utility puts you in total control of your system, providing powerful tools to configure performance, efficiency, and noise to your personal taste

AMD Memory Optimizer Technology

Integrated DRAM Controller with AMD Memory Optimizer Technology provides a high-bandwidth, low-latency integrated memory controller to feed more cores

AMD Turbo Core Technology²

AMD Turbo Core is a performance-boosting technology that adjusts the clock rates and helps increase performance on the applications that need it the most

AMD PowerNow!™ AMD Technology Cool'n'Quiet™ Technology

These technologies can dynamically activate the parts of the processor that your applications need while switching off power-draining resources that aren't being used. They work to deliver the most efficient performance possible

www.amd.com/fx

For more information, please visit partner.AMD.COM

Your source for tools, training, news, reviews, and much more!

AMD Wraith Cooler

Enjoy a near-silent operation with a supernatural style. The Wraith Cooler generates less than one-tenth the noise of its predecessor, and features a backlit illumination and an attractive fan shroud^{7,8}

Hypertransport™ Technology

Provides quick access times to system I/O for better performance

Ready for DirectX® 12

With up to eight CPU cores ready to deliver improved game performance, the AMD FX™ processor is built to take full advantage of DirectX® 12's advanced feature set⁶

Unlocked CPU Clock Multiplier¹

From top-to-bottom the entire AMD FX™ line can be overclocked without artificial multiplier restrictions

1. AMD's product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware

2. AMD Turbo Core technology is available only with select AMD A-Series accelerated processing units and AMD FX Processors that are currently on the market.

3. AMD FX™ 9590 has the highest nominal (4.7 GHz) and turbo (5.0 GHz) clock rates of any x86-compatible desktop CPU. Intel's fastest CPU, the i7-4790K, has a 4.0 GHz nominal and 4.4 GHz max turbo clock rate. See ark.intel.com for competing models. DTV-34

4. As of 29/08/2016, AMD FX™ 4000 Series CPUs (\$90 to \$110) have 4 cores vs the Intel Pentium G and Core i3 6100 Series CPUs (\$60 to \$126) with 2 cores; AMD 6000 Series CPUs (\$100 to \$139) have 6 cores vs the Intel Core i3 6300 Series CPUs (\$150 to \$160) with 2 cores; AMD FX™ 8000 and AMD FX™ 9000 Series CPUs (\$120 to \$205) have 8 cores vs the Intel Core i5 6000 Series CPUs (\$190 to \$250) with 4 cores. Prices taken from Newegg.com 29/08/2016. See ark.intel.com for competing models. DTV-77

5. As of 29/08/2016, AMD FX™ 4000 Series CPUs (\$90 to \$110) have at least 8MB of total cache vs the Intel Pentium G and Core i3 6100 Series CPUs (\$60 to \$126) with 3.5MB total cache; AMD 6000 Series CPUs (\$100 to \$139) have 14MB of total cache vs the Intel Core i3 6300 Series CPUs (\$150 to \$160) with 4.5MB total cache; AMD FX™ 8000 and AMD FX™ 9000 Series CPUs (\$120 to \$205) have 16MB of total cache vs the Intel Core i5 6000 Series CPUs (\$190 to \$250) with 7MB total cache. Prices taken from Newegg.com 29/08/2016. See ark.intel.com for competing models. DTV-36

6. DirectX® 12 enablement requires an x86 processor and an AMD Radeon™ graphics chip based on the Graphics Core Next architecture. Windows® 10 Technical Preview 2 (or later) and AMD Catalyst™ driver 15.20 (or later) from Windows Update required.

7. Subject to use according to product specifications. The AMD Wraith cooler has a maximum noise level of 39dBa. The AMD D3 cooler, which the Wraith Cooler has replaced on certain CPUs, has a maximum noise level of 51 dBa. In the logarithmic dbA scale, a ten decibel difference is equal to ten times the amount of noise, so the AMD Wraith Cooler generates less than one tenth the noise of its predecessor. WTH-1

8. Product only available when bundled with select AMD processors