

# Quad-Core AMD Opteron™ Processor Model Number Lineup

Generations  
Ahead



## Understanding Quad-Core AMD Opteron™ Processor Model Numbers

Quad-Core AMD Opteron™ processors are identified by a four digit model number, XYZZ, where:

**X** — indicates the maximum scalability of the processor.

- 1000 Series = 1-way servers and workstations
- 2000 Series = Up to 2-way servers and workstations
- 8000 Series = Up to 8-way servers and workstations

**Y** — indicates socket generation. This digit is always '3' for Quad-Core AMD Opteron™ processors for Socket F (1207) and Socket AM2.

- 1000 Series in Socket AM2 = Models 13XX
- 2000 Series in Socket F (1207) = Model 23XX
- 8000 Series in Socket F (1207) = Model 83XX

**ZZ** — indicates relative performance within the series.

An AMD Opteron™ Processor Model 2356 is higher performing than an AMD Opteron™ Processor Model 2354, etc.

**HE** — indicates a 55W low-power Quad-Core AMD Opteron™ processor.

Performance of a low-power AMD Opteron™ processor HE model number, ZYXX, is equal to the performance of the same model number standard-power version. For example, an AMD Opteron™ processor Model 2347 HE offers the same performance as a standard wattage AMD Opteron™ processor Model 2347.

**SE** — indicates a higher power, frequency-optimized AMD Opteron™ processor.

	Quad-Core AMD Opteron™ Processor SKU	Quad-Core Intel Xeon Processor SKU
2000 Series vs. Xeon 5XXX	Quad-Core AMD Opteron™ Model 2384 (2.7GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 2382 (2.6GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 2380 (2.5GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 2378 (2.4GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 2376 (2.3GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 2360 SE (2.5GHz, 105W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X5470 (3.33GHz, 120W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2358 SE (2.4GHz, 105W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5472 (3.0GHz, 80W, 2x6MB L2, 1600 FSB)
	Quad-Core AMD Opteron™ Model 2356 (2.3GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X5460 (3.16GHz, 120W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon X5450 (3.0GHz, 120W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2354 (2.2GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5450 (3.0GHz, 80W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2352 (2.12GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5462 (2.8GHz, 80W, 2x6MB L2, 1600 FSB)
	Quad-Core AMD Opteron™ Model 2350 (2.0GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5440 (2.83GHz, 80W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5430 (2.66GHz, 80W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5420 (2.5GHz, 80W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon X5365 (3.0GHz, 120W, 2x4MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5410 (2.33GHz, 80W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon X5355 (2.66GHz, 1200W, 2x4MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5405 (2.0GHz, 80W, 2x6MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5345 (2.33GHz, 80W, 2x4MB L2, 1333 FSB)
		Quad-Core Intel Xeon E5335 (2.0GHz, 80W, 2x4MB L2, 1333 FSB)
	Quad-Core Intel Xeon E5320 (1.86GHz, 80W, 2x4MB L2, 1066 FSB)	
	Quad-Core Intel Xeon E5310 (1.6GHz, 80W, 2x4MB L2, 1066 FSB)	
	Quad-Core Intel Xeon X5272 (3.4GHz, 80W, 6MB L2, 1600 FSB)	
	Quad-Core Intel Xeon X5260 (3.33GHz, 80W, 6MB L2, 1333 FSB)	
	Quad-Core Intel Xeon 5160 (3.0GHz, 80W, 4MB L2, 1333 FSB)	
	Quad-Core Intel Xeon 5080 (3.73GHz, 130W, 2x2MB L2, 1066 FSB)	
	Quad-Core Intel Xeon 5140 (2.33GHz, 65W, 4MB L2, 1333 FSB)	
	Quad-Core Intel Xeon 5130 (2.0GHz, 65W, 4MB L2, 1333 FSB)	
	Quad-Core Intel Xeon 5060 (3.2GHz, 130W, 2x2MB L2, 1066 FSB)	
	Quad-Core Intel Xeon 5120 (1.86GHz, 65W, 4MB L2, 1066 FSB)	
	Quad-Core Intel Xeon 5110 (1.6GHz, 65W, 4MB L2, 1066 FSB)	
Low Power HE	Quad-Core AMD Opteron™ Model 2350 HE (2.0GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5430 (2.66GHz, 50W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2347 HE (1.9GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5420 (2.5GHz, 50W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2346 HE (1.8GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5410 (2.33GHz, 50W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2344 HE (1.7GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5335 (2.0GHz, 50W, 2x4MB L2, 1333 FSB)
		Quad-Core Intel Xeon L5320 (1.86GHz, 50W, 8MB L2, 1066 FSB)
		Quad-Core Intel Xeon L5310 (1.6GHz, 50W, 8MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 2218 HE (2.6GHz, 2x1MB L2, 68W)	
	Quad-Core AMD Opteron™ Model 2216 HE (2.4GHz, 2x1MB L2, 68W)	
		Quad-Core Intel Xeon 5148 (2.33GHz, 40W, 4MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2214 HE (2.2GHz, 2x1MB L2, 68W)	
Quad-Core AMD Opteron™ Model 2212 HE (2.0GHz, 2x1MB L2, 68W)	Quad-Core Intel Xeon 5063 (3.2GHz, 95W, 2x2MB L2, 1066 FSB)	
Quad-Core AMD Opteron™ Model 2210 HE (1.8GHz, 2x1MB L2, 68W)		

8000 Series vs. Xeon 7XXX	Standard Power / SE	
	Quad-Core AMD Opteron™ Processor SKU	Quad-Core Intel Xeon Processor SKU
	Quad-Core AMD Opteron™ Model 8384 (2.7GHz, 75W, 4x512KB L2, 6MB L3)	Hex-Core Intel Xeon Model E7450 (2.4GHz, 90W, 9MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8382 (2.6GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 8380 (2.5GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 8378 (2.4GHz, 75W, 4x512KB L2, 6MB L3)	
	Quad-Core AMD Opteron™ Model 8360 SE (2.5GHz, 75W, 4x512KB L2, 2MB L3)	
	Quad-Core AMD Opteron™ Model 8358 SE (2.4GHz, 75W, 4x512KB L2, 6MB L3)	Quad-Core Intel Xeon Model E7440 (2.93GHz, 90W, 6MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8356 (2.3GHz, 75W, 4x512KB L2, 6MB L3)	Quad-Core Intel Xeon Model E7430 (2.13GHz, 90W, 6MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8354 (2.2GHz, 75W, 4x512KB L2, 6MB L3)	Quad-Core Intel Xeon Model X7350 (2.93GHz, 130W, 2x4MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8350 (2.0GHz, 75W, 4x512KB L2, 6MB L3)	Quad-Core Intel Xeon Model E7420 (2.13GHz, 90W, 6MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8224 SE (3.2GHz, 120W, 2x1MB L2)	Quad-Core Intel Xeon Model E7340 (2.4GHz, 80W, 2x4MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8222 (3.0GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon E7330 (2.4GHz, 80W, 2x3MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8220 SE (2.8GHz, 120W, 2x1MB L2)	Quad-Core Intel Xeon E7320 (2.13GHz, 80W, 2x2MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8220 (2.8GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon 7150N (3.5GHz, 150W, 16MB L3, 667FSB)
	Quad-Core AMD Opteron™ Model 8218 (2.6GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon 7140M (3.4GHz, 150W, 16MB L3, 800 FSB)
	Quad-Core AMD Opteron™ Model 8216 (2.4GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon E7310 (1.6GHz, 80W, 2x2MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8214 (2.2GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon 7140N (3.33GHz, 150W, 16MB L3, 667 FSB)
	Quad-Core AMD Opteron™ Model 8212 (2.0GHz, 95W, 2x1MB L2)	Quad-Core Intel Xeon 7140M (3.4GHz, 150W, 16MB L3, 800 FSB)
		Quad-Core Intel Xeon 7140N (3.33GHz, 150W, 16MB L3, 667 FSB)
		Quad-Core Intel Xeon 7130M (3.2GHz, 150W, 8MB L3, 800 FSB)
		Quad-Core Intel Xeon 7130N (3.16GHz, 150W, 8MB L3, 667 FSB)
		Quad-Core Intel Xeon 7041 (3.0GHz, 165W, 2x2MB L2, 800 FSB)
		Quad-Core Intel Xeon 7120M (3.0GHz, 95W, 4MB L3, 800 FSB)
		Quad-Core Intel Xeon 7120N (3.0GHz, 95W, 4MB L3, 667 FSB)
		Quad-Core Intel Xeon 7030 (2.8GHz, 165W, 1x1MB L2, 800 FSB)
		Quad-Core Intel Xeon 7100M (2.6GHz, 95W, 4MB L3, 800 FSB)
		Quad-Core Intel Xeon 7100N (2.5GHz, 95W, 4MB L3, 667 FSB)
		Quad-Core Intel Xeon 7020 (2.66GHz, 165W, 1x1MB L2, 667 FSB)
	Quad-Core AMD Opteron™ Model 8350 HE (2.0GHz, 55W, 4x512KB L2, 2MB L3)	
	Quad-Core AMD Opteron™ Model 8347 HE (1.9GHz, 55W, 4x512KB L2, 2MB L3)	
	Quad-Core AMD Opteron™ Model 8346 HE (1.8GHz, 55W, 4x512KB L2, 2MB L3)	
	Quad-Core AMD Opteron™ Model 8218 HE (2.6GHz, 68W, 2x1MB L2)	Quad-Core Intel Xeon L7345 (1.86GHz, 50W, 2x4MB L2, 1066 FSB)
	Quad-Core AMD Opteron™ Model 8216 HE (2.4GHz, 68W, 2x1MB L2)	
	Quad-Core AMD Opteron™ Model 8214 HE (2.2GHz, 68W, 2x1MB L2)	
	Quad-Core AMD Opteron™ Model 8212 HE (2.0GHz, 68W, 2x1MB L2)	

1000 Series vs. Xeon 3XXX	Standard Power / SE	
	Quad-Core AMD Opteron™ Processor SKU	Quad-Core Intel Xeon Processor SKU
	Quad-Core AMD Opteron™ Model 1356 (2.3GHz, 4x512KB L2, 2MB L3, 75W)	Quad-Core Intel Xeon X3320 (2.5GHz, 1333FSB, 2x3MB L2, 95W)
	Quad-Core AMD Opteron™ Model 1354 (2.2GHz, 4x512KB L2, 2MB L3, 75W)	Quad-Core Intel Xeon X3230 (2.66GHz, 1066FSB, 2x4MB L2, 95W)
	Quad-Core AMD Opteron™ Model 1350 (2.1GHz, 4x512KB L2, 2MB L3, 75W)	Quad-Core Intel Xeon X3220 (2.4GHz, 1066FSB, 2x4MB L2, 95W)
		Quad-Core Intel Xeon X3210 (2.13GHz, 1066FSB, 2x4MB L2, 95W)
		Quad-Core Intel Xeon E3110 (3.0GHz, 1333FSB, 6MB L2, 65W)
		Quad-Core Intel Xeon 3085 (3.0GHz, 1333FSB, 4MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1224 SE (3.2GHz, 2x1MB L2, 125W)	
	Quad-Core AMD Opteron™ Model 1222 SE (3.0GHz, 2x1MB L2, 125W)	
	Quad-Core AMD Opteron™ Model 1222 (3.0GHz, 2x1MB L2, 103W)	
	Quad-Core AMD Opteron™ Model 1220 SE (2.8GHz, 2x1MB L2, 125W)	Quad-Core Intel Xeon 3075 (2.66GHz, 1333FSB, 4MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1220 (2.8GHz, 2x1MB L2, 103W)	Quad-Core Intel Xeon 3070 (2.66GHz, 1066FSB, 4MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1218 (2.6GHz, 2x1MB L2, 103W)	Quad-Core Intel Xeon 3065 (2.4GHz, 1333FSB, 4MB L2, 65W)
		Quad-Core Intel Xeon 3060 (2.4GHz, 1066FSB, 4MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1216 (2.4GHz, 2x1MB L2, 103W)	
	Quad-Core AMD Opteron™ Model 1214 (2.2GHz, 2x1MB L2, 103W)	Quad-Core Intel Xeon 3050 (2.13GHz, 1066FSB, 2MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1212 (2.0GHz, 2x1MB L2, 103W)	Quad-Core Intel Xeon 3040 (1.86GHz, 1066FSB, 2MB L2, 65W)
	Quad-Core AMD Opteron™ Model 1210 (1.8GHz, 2x1MB L2, 103W)	
	Quad-Core AMD Opteron™ Model 1220 HE (2.8GHz, 2x1MB L2, 65W)	
	Quad-Core AMD Opteron™ Model 1218 HE (2.6GHz, 2x1MB L2, 65W)	
	Quad-Core AMD Opteron™ Model 1216 HE (2.4GHz, 2x1MB L2, 65W)	
	Quad-Core AMD Opteron™ Model 1214 HE (2.2GHz, 2x1MB L2, 65W)	
	Quad-Core AMD Opteron™ Model 1212 HE (2.0GHz, 2x1MB L2, 65W)	
	Quad-Core AMD Opteron™ Model 1210 HE (1.8GHz, 2x1MB L2, 65W)	No comparable products available

