

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.

Model Positioning

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, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X3320 (2.5GHz, 95W, 1333FSB, 2x3MB L2)
		Quad-Core AMD Opteron™ Model 1354 (2.2GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X3230 (2.66GHz, 95W, 1066FSB, 2x4MB L2)
		Quad-Core AMD Opteron™ Model 1352 (2.1GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X3220 (2.4GHz, 95W, 1066FSB, 2x4MB L2)
			Quad-Core Intel Xeon X3210 (2.13GHz, 95W, 1066FSB, 2x4MB L2)
2000 Series vs. Xeon 5XXX	Standard Power / SE	Quad-Core AMD Opteron™ Model 2386 SE (2.8GHz, 105W, 4x512KB L2, 6MB L3)	
		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 X5482 (3.2GHz, 120W, 2x6MB L2, 1600 FSB)
		Quad-Core AMD Opteron™ Model 2358 SE (2.4GHz, 105W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X5470 (3.33GHz, 120W, 2x6MB L2, 1333 FSB)
			Quad-Core Intel Xeon X5472 (3.0GHz, 120W, 2x6MB L2, 1600 FSB)
			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 (3.17GHz, 120W, 2x6MB L2, 1333 FSB)
	Quad-Core AMD Opteron™ Model 2354 (2.2GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5462 (2.8GHz, 80W, 2x6MB L2, 1600 FSB)	
	Quad-Core AMD Opteron™ Model 2352 (2.1GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X5450 (3.0GHz, 120W, 2x6MB L2, 1333 FSB)	
	Quad-Core AMD Opteron™ Model 2350 (2.0GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E5450 (3.0GHz, 80W, 2x6MB L2, 1333 FSB)	
		Quad-Core Intel Xeon E5440 (2.83GHz, 80W, 2x6MB L2, 1333 FSB)	
		Quad-Core Intel Xeon E5430 (2.67GHz, 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, 120W, 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)		
Low Power HE	Quad-Core AMD Opteron™ Model 2376 HE (2.3GHz, 55W, 4x512KB L2, 6MB L3)		
	Quad-Core AMD Opteron™ Model 2374 HE (2.2GHz, 55W, 4x512KB L2, 6MB L3)		
	Quad-Core AMD Opteron™ Model 2372 HE (2.1GHz, 55W, 4x512KB L2, 6MB L3)		
	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, 1333FSB)	
	Quad-Core AMD Opteron™ Model 2346 HE (1.8GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5410 (2.33GHz, 50W, 2x6MB L2, 1333FSB)	
	Quad-Core AMD Opteron™ Model 2344 HE (1.7GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L5335 (2.0GHz, 50W, 8MB 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)		

Model Positioning (cont.)

		Quad-Core AMD Opteron™ Processor SKU	Quad-Core Intel Xeon Processor SKU
		Standard Power / SE	Quad-Core AMD Opteron™ Model 8386 SE (2.8GHz, 105W, 4x512KB L2, 6MB L3)
Quad-Core AMD Opteron™ Model 8384 (2.7GHz, 75W, 4x512KB L2, 6MB L3)			
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)	Hex-Core Intel Xeon E7450 (2.4GHz, 90W, 12MB L3, 1066 FSB)		
Quad-Core AMD Opteron™ Model 8378 (2.4GHz, 75W, 4x512KB L2, 6MB L3)			
Quad-Core AMD Opteron™ Model 8360 SE (2.5GHz, 105W, 4x512KB L2, 2MB L3)			
Quad-Core AMD Opteron™ Model 8358 SE (2.4GHz, 105W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E7440 (2.4GHz, 90W, 16MB L3, 1066 FSB)		
Quad-Core AMD Opteron™ Model 8356 (2.3GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon X7350 (2.93GHz, 130W, 2x4MB L2, 1066 FSB)		
Quad-Core AMD Opteron™ Model 8354 (2.2GHz, 75W, 4x512KB L2, 2MB L3)			
Quad-Core AMD Opteron™ Model 8350 (2.0GHz, 75W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon E7430 (2.13GHz, 90W, 12MB L3, 1066 FSB)		
	Quad-Core Intel Xeon E7340 (2.4GHz, 80W, 2x4MB L2, 1066 FSB)		
	Quad-Core Intel Xeon E7420 (2.13GHz, 90W, 8MB L3, 1066 FSB)		
	Quad-Core Intel Xeon E7330 (2.4GHz, 80W, 2x3MB L2, 1066 FSB)		
	Quad-Core Intel Xeon E7320 (2.13GHz, 80W, 2x2MB L2, 1066 FSB)		
	Quad-Core Intel Xeon E7310 (1.6GHz, 80W, 2x2MB L2, 1066 FSB)		
Low Power HE	Quad-Core AMD Opteron™ Model 8376 HE (2.3GHz, 55W, 4x512KB L2, 6MB L3)	Hex-Core Intel Xeon L7455 (2.13GHz, 65W, 12MB L3, 1066 FSB)	
	Quad-Core AMD Opteron™ Model 8374 HE (2.2GHz, 55W, 4x512KB L2, 6MB L3)		
	Quad-Core AMD Opteron™ Model 8350 HE (2.0GHz, 55W, 4x512KB L2, 2MB L3)	Quad-Core Intel Xeon L7445 (2.13GHz, 50W, 12MB L3, 1066 FSB)	
	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 Intel Xeon L7345 (1.86GHz, 50W, 2x4MB L2, 1066 FSB)	

