

## AMD Phenom™ II Processor Model Number and Feature Comparisons

AMD Phenom™ II X4 Processor						
Model Number	Frequency	Total L2 Cache	L3 Cache	Packaging	Thermal Design Power	CMOS Technology
965*	3.4 GHz	2MB	6MB	socket AM3	140W	45nm SOI
955*	3.2 GHz	2MB	6MB	socket AM3	125W	45nm SOI
945	3.0 GHz	2MB	6MB	socket AM3	125W	45nm SOI
945	3.0 GHz	2MB	6MB	socket AM3	95W	45nm SOI

### Energy Efficient AMD Phenom™ II X4 Processor Product Model Comparisons

Model Number	Frequency	Total L2 Cache	L3 Cache	Packaging	Thermal Design Power	CMOS Technology
905e	2.5GHz	2MB	6MB	socket AM3	65W	45nm SOI
900e	2.4GHz	2MB	6MB	socket AM3	65W	45nm SOI

AMD Phenom™ II X3 Processor						
Model Number	Frequency	Total L2 Cache	L3 Cache	Packaging	Thermal Design Power	CMOS Technology
720*	2.8 GHz	1.5MB	6MB	socket AM3	95W	45nm SOI
710	2.6 GHz	1.5MB	6MB	socket AM3	95W	45nm SOI

### Energy Efficient AMD Phenom™ II X3 Processor Product Model Comparisons

Model Number	Frequency	Total L2 Cache	L3 Cache	Packaging	Thermal Design Power	CMOS Technology
705e	2.5GHz	1.5MB	6MB	socket AM3	65W	45nm SOI
700e	2.4GHz	1.5MB	6MB	socket AM3	65W	45nm SOI

### AMD Phenom™ II X2 Processor Product Model Comparisons

Model Number	Frequency	Total L2 Cache	L3 Cache	Packaging	Thermal Design Power	CMOS Technology
550*	3.1GHz	1MB	6MB	socket AM3	80W	45nm SOI
545	3.0GHz	1MB	6MB	socket AM3	80W	45nm SOI

\*Available as Black Edition PIB

<b>AMD64 Technology</b>	Yes
Simultaneous 32- & 64-bit computing	Yes
L1 Cache (Instruction + Data) per core	128KB (64KB + 64KB)
L2 Cache (512KB per core)	2MB, 1.5MB or 1MB
L3 Cache	6MB or 4MB (shared L3)
<b>HyperTransport™ Technology</b>	HyperTransport™ Technology up to 4000MT/s full duplex, or up to 16.0GB/s I/O Bandwidth
<b>Integrated DDR2 Memory Controller</b>	yes
Memory Controller Width	128-bit
Type of Memory Supported	PC2-8500(DDR2-1066) PC2 6400(DDR2-800), PC2 5300(DDR2-667), PC2 4200(DDR2-533), and PC2 3200(DDR2-400) unbuffered memory – AM2+  Support for unregistered DIMMs up to PC2 8500(DDR2-1066MHz) and PC3 10600 (DDR3-1333MHz) – AM3 only
Memory Bandwidth	up to 17.1 GB/s dual channel memory bandwidth- AM2+  up to 21 GB/s dual channel memory bandwidth- AM3
Total Processor-to-system Bandwidth (HyperTransport plus memory bandwidth)	up to 33.1 GB/s- AM2+  up to 37 GB/s- AM3
Process Technology	45 nanometer, SOI (silicon-on-insulator) Technology
Packaging	AM2+ (940-pin) organic micro PGA  AM3 (938-pin) organic micro PGA
Thermal Design Power	125W, 95W, 80W or 65W
Die Size	45nm: 285mm <sup>2</sup>
Manufacturing Sites	Fab 36 in Dresden, Germany