






CPU Overview

<http://www.tomshardware.com/charts/cpu-charts-2013/benchmarks,140.html>

Intel

8088/80286	DIP socket	16-bit 4.77/8/12.5 MHz 1MB/16MB Max	
386/486/Pentium/ Pentium Pro/P II/ P III (Celeron)	Socket 4/5/7/370 Slot 1	32-bit 16Mhz – 1.4GHz 4GB Max	
P4 (Celeron)	Socket 423/478	32-bit 1.3 – 3.8 GHz 4GB Max	
Pentium D/ Dual Core Core 2 Duo/Quad (Extreme/Celeron)	LGA 775	64-bit 1.06 – 3+ Ghz. 256TB Max Multi-core	
Core i3/i5/i7	LGA 1156 LGA 1366 LGA 1155 LGA 2011 LGA 1150	64-bit 2.66-3.33GHz. 256TB Max DDR3 Dual, quad-core Hyperthreading Onboard GPU (some) “Turbo Boost”	

AMD

K5/K6	Socket 5/7	32-bit 75 – 300MHz 4GB Max	
Athlon(K7)/XP/MP (Duron)	Socket A/462 Slot A	32-bit 1500+ - 3200+ (1.33 – 2.2GHz) 4GB Max	
Athlon 64/64 X2 (FX/Sempron)	Socket 754/939 Socket AM2	32/64-bit 2800+ – 5000+ (1.4 – 3.0GHz) Multi-core (X2) 256TB Max DDR2 (AM2)	
Phenom/Phenom II (X2/X3/X4/X6)	AM2+ AM3	32/64-bit 1.8 – 3+GHz. (series) 256TB Max DDR2 (AM2+) DDR3 (AM3) True multi-core Phenom II more L3	
Fusion (APU)	FM1 FM2	2.4-3.0 GHz. DDR3 2,3,4 cores Integrated GPU	

Memory Overview

SDR-SDRAM	168-pin DIMM	100MHz (PC-100) 133MHz (PC-133)	
RDRAM (Rambus)	184-pin RIMM	300-600MHz (single) 400-800MHz (dual)	
DDR-SDRAM	184-pin DIMM	200MHz (PC1600) 266MHz (PC2100) 333MHz (PC2700) 400MHz (PC3200)	
DDR2-SDRAM	240-pin DIMM	400MHz (PC3200) 533MHz (PC4200) 667MHz (PC5300) 800MHz (PC6400) 1066MHz(PC8500)	
DDR3-SDRAM	240-pin DIMM (not DDR2 compatible)	800MHz (PC6400) 1066MHz (PC8500) 1333MHz (PC10600) 1600MHz (PC12800) . . etc.	
DDR4-SDRAM	288-pin DIMM	2100MHz . . 3200MHz	