**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 | Macintosh HD:Users:james:Desktop:20-148-863-01.jpg |