

CPU Comparative Matrix - OCPIUG Hardware SIG Meeting, 01/19/2010 - Current Models ONLY - Value Desktop Segment				
Brand	AMD	Intel	Intel	Intel
Model	Sempron LE-1200, LE-1300	Celeron D 430, 480	Celeron Dual-Core E1500, E3300	Pentium Dual-Core E6200, G6950
Speed (GHz)	2.2 - 2.3	1.8 - 2.3	2.2 - 2.5	2.5 - 2.93
Price (\$/1)	\$0-36	\$4-63	\$3 - \$3	\$4 - \$7
Cache, L1 (K)	128	32	32000e	32000e
Cache, L2 (K), L3	512K exclusive	512K	512K-1MB (shared)	3MB (3MB G6950) (shared)
System Bus (MHz)	1600	800	800	800-1066
Memory Bus (bits) (2)	128 (DC)	varies by chipset	varies by chipset	varies by chipset (64 for G6950)
Typ. Mem. Type	DDR2-400/667	varies by chipset	varies by chipset	varies by chipset (up to DDR3-1333 for G6950)
Cores	1	1	2	2
Package (3)	AM2	775	775	775, 1156 (for G6950)
Std. Features (4)	32kB HTT, CnQ, EVP, SSE3, integrated memory controller	SSE3, XD, 32kB	SSE3, XD, 32kB	up to SSE4.1, XD, 32kB
NOTES: (1) Price per manufacturer's latest published price list as of 1/19/2010. 1K bits, 1000. (2) DC = single channel; EC = dual channel. (3) Socket (B only). (4) All features may not apply to all models in the group. -3D = 3D support -CnQ = Cool'n'Quiet -DMC = Direct Media Interface -HTT = HyperThreading -HTT = HyperThreading -TVP = Trusted Video Protection -QPI = QuickPath Interconnect -SSE+ = Streaming SIMD Extensions Version X -XD = Execute Disable Bit -VT = Virtualization Technology				
CPU Comparative Matrix - OCPIUG Hardware SIG Meeting, 01/19/2010 - Current Models ONLY - Mainstream Desktop Segment				
Brand	AMD	AMD	Intel	Intel
Model	Athlon LE, X2, II, X2 LE-1600, LE-1690 X2 6200 - 7850 II X2 280	Phenom X3, II X2, II X3 X3 8650 II X2 550 II X3 710 - 720	Core 2 Duo, Core i3 C2D E6600, E6700 C3D 530 - 540	Core 2 Quad, Core i5 C2Q Q6600, Q6700 C5D 650 - 660
Speed (GHz)	2.6 - 3.0	2.3 - 3.1	2.8 - 3.3	2.33 - 3.46
Price (\$/1)	\$8 - \$7	\$9 - 145	\$13 - 266	\$63 - 284
Cache, L1 (K)	128000e	128000e	32000e	32000e
Cache, L2 (K), L3	512-1024000e L2 + 2MB L3 (2x00)	512000e L2 + 2MB L3	3MB - 6MB (shared)	4MB - 6MB (shared)
System Bus (MHz)	2000-4000	3600-4000	1066, 1333 (2.6G T/s for C3)	1066, 1333 (2.6G T/s for C5)
Memory Bus (bits) (2)	128 (DC)	128 (DC)	varies by chipset (RAM speed for C3)	varies by chipset (RAM speed for C5)
Typ. Mem. Type	up to DDR2-1066, DDR3-1066	up to DDR2-1066, DDR3-1333	varies by chipset (up to DDR3-1333 for C3)	varies by chipset (up to DDR3-1333 for C5)
Cores	1, 2, 3, 4	2, 3	2	2, 4
Package (3)	AM2, AM2+, AM3	AM2+ - AM3	775 - 1156 (C3)	775 - 1156 (C5)
Std. Features (4)	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	up to SSE4.1, XD, 32kB, VT, integrated memory and graphics controllers (C3)	up to SSE4.2, XD, 32kB, VT, integrated memory controller (C5), integrated graphics controller (C3 and C5 Ex)
CPU Comparative Matrix - OCPIUG Hardware SIG Meeting, 01/19/2010 - Current Models ONLY - Performance Desktop Segment				
Brand	AMD	AMD	Intel	Intel
Model	Phenom X4 9600 - 9850	Phenom II X4 810 - 940	Core 2 Quad Q9550 - Q9650	Core i7 860 - 960
Speed (GHz)	2.3 - 2.6	2.6 - 3.0	2.83 - 3.0	2.66 - 3.2
Price (\$/1)	\$12 - 163	\$175 - 225	\$66 - 316	\$84 - 162
Cache, L1 (K)	128000e	128000e	32000e	64000e
Cache, L2 (K), L3	512000e L2 + 2MB L3	512000e L2 + 4MB L3	12MB (shared)	256K000e L2 3MB L3 (shared)
System Bus (MHz)	3600-4000	3600-4000	1333	2.56T/s DMI (Ex), 4.8G T/s QPI (Ex)
Memory Bus (bits) (2)	128 (DC)	128 (DC)	varies by chipset	RAM speed
Typ. Mem. Type	up to DDR2-1066	up to DDR2-1066, DDR3-1333	varies by chipset	up to DDR3-1066
Cores	4	4	4	4
Package (3)	AM2+	AM3	775	1156 (Ex), 1366 (Ex)
Std. Features (4)	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	SSE4, XD, 32kB, VT	up to SSE4.2, XD, 32kB, VT, HT (Ex), integrated memory controller - 2 ch (Ex), 3 ch (Ex)
CPU Comparative Matrix - OCPIUG Hardware SIG Meeting, 01/19/2010 - Current Models ONLY - Enthusiast Desktop Segment				
Brand	AMD	AMD	Intel	Intel
Model	Phenom X4 9600 Black Edition	Phenom II X4 955 Black Edition	Core i7 Extreme Edition 975	
Speed (GHz)	2.6	3.2	3.33	
Price (\$/1)	\$183	\$245	\$99	
Cache, L1 (K)	128000e	128000e	64000e	
Cache, L2 (K), L3	512000e L2 + 2MB L3	512000e L2 + 4MB L3	256K000e L2 3MB L3 (shared)	
System Bus (MHz)	4000	4000	6.4G T/s QPI	
Memory Bus (bits) (2)	128 (DC)	128 (DC)	RAM speed	
Typ. Mem. Type	up to DDR2-1066	up to DDR3-1333	up to DDR3-1066	
Cores	4	4	4	
Package (3)	AM2+	AM3	1366	
Std. Features (4)	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	32kB HTT, CnQ, EVP, SSE4a, integrated memory controller	up to SSE4.2, XD, 32kB, VT, HT integrated memory controller (3 channel)	