

Intel Mobile CPU (2007-2010)

Brand	Core 2 Extreme		Core 2 Quad		Core 2 Extreme	Core i7?		
Processor #	X9000	X9100	Q9000	Q9100	QX9xxx			
Voltage	Extreme		Extreme			Standard V	Standard V	Extreme
Codename	Penryn 6M		Penryn QC			Arrandale	Clarksfield	
Platform	Santa Rosa	Montevina	Montevina			Calpella		
Micro-architecture	Core MA		Core MA			Nehalem(Westmere)	Nehalem	
# of Core	Dual Core		Quad Core			Dual Core	Quad Core	
Hyper-Threading	N/A		N/A			2 threads/core	2 threads/core	
Intel 64	Intel 64		Intel 64			Intel 64	Intel 64	
VT	VT		VT			Extended VT-x/d	Extended VT-x/d	
EIST(SpeedStep)	EIST(SpeedStep)		EIST(SpeedStep)			EIST(SpeedStep)		
IDA	N/A		IDA			Turbo Boost		
Cache	6MB L2		2x3MB L2	2x6MB		512KB L2+4MB L3	1MB L2+8MB L3	
FSB	FSB 800	FSB 1066	FSB 1066			PCIe x16/DMI	PCIe x16/DMI	
Memory interface	N/A		N/A			DDR3 1066x2	DDR3 1066x2	
GPU core	N/A		N/A			GPU core	N/A	
Package	PGA		PGA			BGA and rPGA	rPGA	
Socket	Socket P		Socket P					
Process Technology	45nm		45nm			32nm	45nm	
# of Die	1		2	2	2	2(CPU+GMCH)	1	
TDP	44W		45W	45W	45W	35W?	?	55W
Launch	Q1'08	Q2'08	Q1'09	Q3'08	Q3'08	Q1'10	09	Q3'09

Brand	Atom		Celeron		Core 2 Duo		Core 2 Duo	Core 2 Duo			
Processor #	N2xx		7xx	9xx	?	T8100/8300	T9300/9500	SP9xxx	P8xxx	P9xxx	T9xxx
Voltage	Standard V	Standard V	ULV	Standard V		Standard V		Power optimized	Power optimized		Standard V
Codename	Diamondville SC	Pineview-M	Penryn			Penryn 3M	Penryn 6M	Penryn 6M	Penryn 3M	Penryn 6M	
Platform		Pine Trail-M	Montevina			Santa Rosa		Montevina			
Micro-architecture	Silverthorne	Lincroft	Core MA			Core MA		Core MA			
# of Core	Single Core	Single Core	Single Core		Dual Core	Dual Core		Dual Core			
Hyper-Threading	2 threads/core	2 threads/core	N/A			N/A		N/A			
Intel 64	Intel 64	Intel 64	Intel 64			Intel 64		Intel 64			
VT	N/A		N/A			VT		VT			
EIST(SpeedStep)	N/A		N/A			EIST(SpeedStep)		EIST(SpeedStep)			
IDA	N/A		N/A			IDA?		IDA			
Cache	512KB L2		1MB L2			3MB L2	6MB L2	6MB L2	3MB L2	6MB L2	
FSB	FSB533		FSB533	FSB 800	FSB 667	FSB 800		FSB 1066			
Memory interface	N/A	DDR2 x1	N/A			N/A		N/A			
GPU core	N/A	GPU core	N/A			N/A		N/A			
Package	BGA	BGA	BGA	PGA		PGA/BGA		BGA	PGA/BGA 22mm	PGA	PGA/BGA
Socket			Socket P			Socket P		Socket P			
Process Technology	45nm	45nm	45nm			45nm		45nm			
# of Die	1	1	1			1		1			
TDP	4W		10W	35W		35W		25W		35W	
Launch	Q2'08	09	Q3'08	Q2'09	Q3'09	Q1'08		Q3'08	Q2'08		

Brand	Celeron M	Celeron		Core 2 Duo			Core 2 Duo	Core 2 Extreme			
Processor #	520/530	5xx	5x5	T1xxx	T5500	T5600	T7200/7400/7600	T7100/7250	T7x00	X7800/7900	
Voltage	Standard V										
Codename	Merom-L	Merom-L		Merom	Merom (Napa Refresh)			Merom (Santa Rosa)		Merom	
Platform	Napa	Santa Rosa	Montevina		Napa			Santa Rosa		Santa Rosa	
Micro-architecture	Core MA				Core MA				Core MA		
# of Core	Single Core		Dual Core		Dual Core				Dual Core		
Hyper-Threading	N/A										
Intel 64	Intel 64				Intel 64				Intel 64		
VT	N/A		N/A		N/A	VT		VT		VT	
EIST(SpeedStep)	N/A				EIST(SpeedStep)				EIST(SpeedStep)		
IDA	N/A				N/A				IDA		N/A
Cache	1MB L2		2MB L2		4MB L2	2MB L2	4MB L2	4MB L2	4MB L2		
FSB	FSB533		FSB 667		FSB 667		FSB 667	FSB 800	FSB 800		FSB 800
Memory interface	N/A										
Package	PGA				PGA/BGA			PGA/BGA		PGA	
Socket	Socket M	Socket P			Socket M			Socket P		Socket P	
Process Technology	65nm				65nm						
# of Die	1				1				1		
TDP	31W		35W		34W		35W		44W		
Launch	Q1'07	Q3'07	Q3'08	09	Q3'06		Q2'07		Q3'07		

Brand	Celeron M	Core 2 Solo	Core 2 Duo				Celeron	Core 2 Solo	Core 2 Duo		
Processor #	523	U2100/2200	U7500/7600	U7500/7600/7700	L7200/7400	L7300/7500/7700	723	U3xxx	SU9xxx	SL9xxx	
Voltage	ULV	ULV				LV	ULV	ULV	ULV	LV	
Codename	Merom-L	Merom-L	Merom	Merom	Merom	Merom	Penryn	Penryn	Penryn 3M	Penryn 6M	
Platform	Napa	Napa		Santa Rosa	Napa	Santa Rosa	Montevina				
Micro-architecture	Core MA		Core MA				Core MA				
# of Core	Single Core	Single Core	Dual Core		Dual Core		Single Core	Dual Core			
Hyper-Threading	N/A										
Intel 64	Intel 64				Intel 64				Intel 64		
VT	N/A		VT		VT		N/A	VT			
EIST(SpeedStep)	N/A				EIST(SpeedStep)				EIST(SpeedStep)		
IDA	N/A		IDA	N/A	IDA	N/A	N/A	N/A	IDA		
Cache	1MB L2	1MB L2	2MB L2		4MB L2		1MB L2	2MB L2	3MB L2	6MB L2	
FSB	FSB533	FSB533		FSB 667	FSB 800	FSB533	FSB 800		FSB1066		
Memory interface	N/A										
Package	BGA	BGA		BGA		BGA 22mm	BGA 22mm	BGA 22mm			
Socket	Socket M	Socket M		Socket P	Socket M	Socket P	Socket P				
Process Technology	65nm		65nm				45nm				
# of Die	1										
TDP	5.5W	5.5W	10W		17W		10W	5.5W	10W	17W	
Launch	Q3'07	Q3'07	Q2'07	Q3'07	Q1'07	Q2'07	Q3'08	Q3'08	Q3'08		

Brand	Celeron M		Core Solo	Core Duo	
Processor #	4x3	4x0	U1xxx	U2xxx	L2xxx
Voltage	ULV	Standard V	ULV		LV
Codename	Yonah SC		Yonah SC	Yonah DC	
Micro-architecture	Yonah		Yonah		
# of Core	Single Core		Single Core	Dual Core	
Hyper-Threading	N/A				
Intel 64	N/A				
VT	N/A		VT	VT	
EIST(SpeedStep)	N/A				
Cache	1MB L2		2MB L2		
FSB	FSB533		FSB533		FSB 667
Package	PGA		BGA		
Process Technology	65nm				
TDP	5.5W	27W	5.5W	9W	15W
Launch	Q2'06	Q2'06	Q2'06	Q3'06	Q1'06