

Intel Mobile CPU (2007-2009)

Brand	Core 2 Extreme		Core 2 Quad		Core 2 Extreme			
Processor #	X9000	X9100	Q9000	Q9100	QX9xxx			
Voltage	Extreme		Extreme		Power optimized	Standard V	Standard V	Extreme
Codename	Penryn 6M		Penryn QC		Auburndale		Clarksfield	
Platform	Santa Rosa	Montevina	Montevina		Calpella			
Micro-architecture	Core MA		Core MA		Nehalem			
# of Core	Dual Core		Quad Core		Dual Core		Quad Core	
Hyper-Threading	N/A				2 threads/core		2 threads/core	
Intel 64	Intel 64				Intel 64		Intel 64	
VT	VT				Extended VT-x/d		Extended VT-x/d	
EIST(SpeedStep)	EIST(SpeedStep)				EIST(SpeedStep)			
IDA	N/A		IDA		Turbo Mode			
Cache	6MB L2		2x3MB L2	2x6MB		512KB L2+4MB L3		1MB L2+8MB L3
FSB	FSB 800	FSB1066	FSB1066		PCIe x16/DMI		PCIe x16/DMI	
Memory interface	N/A		N/A		DDR3 x2		DDR3 x2	
GPU core	N/A		N/A		GPU core		N/A	
Package	PGA		PGA		rPGA989		rPGA989	
Socket	Socket P		Socket P					
Process Technology	45nm		45nm		45nm		45nm	
# of Die	1		2	2	2	2(CPU+GMCH)		1
TDP	44W		45W	45W	45W	35W	45W?	45W?
Launch	Q1'08	Q2'08	Q1'09	Q3'08	Q3'08	Q3'09	09	09

Brand	Atom		Core 2 Duo		Core 2 Duo	Core 2 Duo		
Processor #	N2xx		T8100/8300	T9300/9500	SP9200/9400	P8400/8600	P9500	T9400/9600
Voltage	Standard V	Standard V	Standard V		Power optimized	Power optimized		Standard V
Codename	Diamondville SC	Pineview SC	Penryn 3M	Penryn 6M	Penryn 6M	Penryn 3M	Penryn 6M	
Platform			Santa Rosa		Montevina			
Micro-architecture	Silverthorne	Lincroft	Core MA		Core MA			
# of Core	Single Core	Single Core	Dual Core		Dual Core			
Hyper-Threading	2 threads/core	2 threads/core	N/A		N/A			
Intel 64	Intel 64	Intel 64	Intel 64		Intel 64			
VT	N/A		VT		VT			
EIST(SpeedStep)	N/A		EIST(SpeedStep)		EIST(SpeedStep)			
IDA	N/A		IDA?		IDA			
Cache	512KB L2		3MB L2	6MB L2	6MB L2	3MB L2	6MB L2	
FSB	FSB533		FSB 800		FSB1066			
Memory interface	N/A	DDR2 x1	N/A		N/A			
GPU core	N/A	GPU core	N/A		N/A			
Package	BGA	BGA	PGA/BGA		BGA	PGA/BGA 22mm	PGA	PGA/BGA
Socket			Socket P		Socket P			
Process Technology	45nm	45nm	45nm		45nm			
# of Die	1	1?	1		1			
TDP	4W		35W		25W		35W	
Launch	Q2'08	09	Q1'08		Q3'08	Q2'08		

Brand	Celeron M	Celeron		Core 2 Duo				Core 2 Extreme
Processor #	520/530	5xx	5x5	T5500	T5600	T7200/7400/7600	T7100/7250	T7x00
Voltage	Standard V							
Codename	Merom-L	Merom-L		Merom (Napa Refresh)			Merom (Santa Rosa)	
Platform	Napa	Santa Rosa	Montevina	Napa			Santa Rosa	
Micro-architecture	Core MA			Core MA				Core MA
# of Core	Single Core			Dual Core				Dual Core
Hyper-Threading	N/A			N/A				N/A
Intel 64	Intel 64			Intel 64				Intel 64
VT	N/A			N/A	VT		VT	
EIST(SpeedStep)	N/A			EIST(SpeedStep)				EIST(SpeedStep)
IDA	N/A			N/A				IDA
Cache	1MB L2			2MB L2		4MB L2	2MB L2	4MB L2
FSB	FSB533		FSB 667	FSB 667		FSB 667	FSB 800	FSB 800
Memory interface	N/A			N/A				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			34W		35W		44W
Launch	Q1'07	Q3'07	Q3'08	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			Single Core		Dual Core		
Hyper-Threading	N/A		N/A				N/A			
Intel 64	Intel 64		Intel 64				Intel 64			
VT	N/A		VT				N/A	VT		
EIST(SpeedStep)	N/A		EIST(SpeedStep)				N/A	EIST(SpeedStep)		
IDA	N/A		N/A	IDA	N/A	IDA	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		N/A				N/A	N/A		
Package	BGA	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		1				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		N/A		
Intel 64	N/A		N/A		
VT	N/A		VT	VT	
EIST(SpeedStep)	N/A		EIST(SpeedStep)		
Cache	1MB L2		2MB L2		
FSB	FSB533		FSB533		FSB 667
Package	PGA		BGA		
Process Technology	65nm		65nm		
TDP	5.5W	27W	5.5W	9W	15W
Launch	Q2'06	Q2'06	Q2'06	Q3'06	Q1'06