

Intel Mobile CPU (2007-2009)

Brand	Atom					
Processor #	N2xx					
Voltage	Standard V	Standard V	Power optimized	Standard V	Standard V	Extreme
Codename	Diamondville SC	Pineview SC	Auburndale	Clarksfield		
Platform			Calpella			
Micro-architecture	Silverthorne	Lincroft	Nehalem			
# of Core	Single Core	Single Core	Dual Core	Quad Core		
Hyper-Threading	2 threads/core	2 threads/core	2 threads/core	2 threads/core		
Intel 64	Intel 64	Intel 64	Intel 64	Intel 64		
VT	N/A		Extended VT-x/d	Extended VT-x/d		
EIST(SpeedStep)	N/A					
IDA	N/A					
Cache	512KB L2		512KB L2+4MB L3	1MB L2+8MB L3		
FSB	FSB533		PCIe x16/DMI	PCIe x16/DMI		
Memory interface	N/A	DDR2 x1	DDR3 x2	DDR3 x2		
GPU core	N/A	GPU core	GPU core	N/A		
Package	BGA	BGA	rPGA989	rPGA989		
Socket						
Process Technology	45nm	45nm	45nm	45nm		
# of Die	1	1?	2(CPU+GMCH)	1		
TDP	4W		35W	45W	45W	55W
Launch	Q2'08	09	09	09	09	09

Brand	Core 2 Duo		Core 2 Duo	Core 2 Duo		Core 2 Extreme			
Processor #	T8100/8300	T9300/9500	SP9200/9400	P8400/8600	P9500	T9400/9600	X9000	X9100	QX9xxx
Voltage	Standard V		Power optimized	Power optimized		Standard V	Extreme		
Codename	Penryn 3M	Penryn 6M	Penryn 6M	Penryn 3M	Penryn 6M		Penryn 6M		Penryn QC
Platform	Santa Rosa		Montevina			Santa Rosa	Montevina		
Micro-architecture	Core MA		Core MA			Core MA			
# of Core	Dual Core		Dual Core			Dual Core	Quad Core		
Hyper-Threading	N/A		N/A			N/A			
Intel 64	Intel 64		Intel 64			Intel 64			
VT	VT		VT			VT			
EIST(SpeedStep)	EIST(SpeedStep)		EIST(SpeedStep)			EIST(SpeedStep)			
IDA	IDA?		IDA			N/A		IDA	
Cache	3MB L2	6MB L2	6MB L2	3MB L2	6MB L2		6MB L2		2x6MB
FSB	FSB 800		FSB1066			FSB 800	FSB1066		
Memory interface	N/A		N/A			N/A			
GPU core	N/A		N/A			N/A			
Package	PGA/BGA		BGA	PGA/BGA 22mm	PGA	PGA/BGA	PGA		
Socket	Socket P		Socket P			Socket P			
Process Technology	45nm		45nm			45nm			
# of Die	1		1			1		2	
TDP	35W		25W		35W		44W		45W
Launch	Q1'08		Q3'08	Q2'08		Q1'08	Q2'08	Q3'08	

Brand	Celeron M	Celeron		Core 2 Duo			Core 2 Duo		Core 2 Extreme
Processor #	520/530	5xx	5x5	T5500	T5600	T7200/7400/7600	T7100/7250	T7x00	X7800/7900
Voltage	Standard V								
Codename	Merom-L	Merom-L		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		Core MA
# of Core	Single Core			Dual Core			Dual Core		Dual Core
Hyper-Threading	N/A			N/A			N/A		N/A
Intel 64	Intel 64			Intel 64			Intel 64		Intel 64
VT	N/A			N/A	VT		VT		VT
EIST(SpeedStep)	N/A			EIST(SpeedStep)			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
FSB	FSB533		FSB 667	FSB 667		FSB 667	FSB 667	FSB 800	FSB 800
Memory interface	N/A			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			65nm		65nm
# of Die	1			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									
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				
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			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		
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