







# All New 2<sup>nd</sup> Gen Intel® Core™ Mobile Processor (SV) Lineup



Brand							
<b>Processor Number</b>		i5-2520M	i5-2540M	i7-2620M	i7-2720QM	i7-2820QM	i7-2920XM
<b>Price</b>		\$225	\$266	\$346	\$378	\$568	\$1096
<b>TDP</b>		35W	35W	35W	45W	45W	55W
<b>Cores/ Threads</b>		2/4	2/4	2/4	4/8	4/8	4/8
<b>CPU Base Freq (GHz)</b>		2.50	2.60	2.70	2.20	2.30	2.50
<b>Intel® Turbo Boost Technology 2.0 Max Frequency (GHz)</b>	<b>SC</b>	3.20	3.30	3.40	3.30	3.40	3.50
	<b>DC</b>	3.00	3.10	3.20	3.20	3.30	3.40
	<b>QC</b>	N/A	N/A	N/A	3.00	3.10	3.20
<b>DDR3 (MHz)</b>		1333MHz	1333MHz	1333MHz	1600MHz	1600MHz	1600MHz
<b>L3 Cache</b>		3MB	3MB	4MB	6MB	8MB	8MB
<b>Intel® HD Graphics 3000</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Gfx Base Render Frequency</b>		650MHz	650MHz	650MHz	650MHz	650MHz	650MHz
<b>Graphics Max Dynamic Frequency</b>		1300MHz	1300MHz	1300MHz	1300MHz	1300MHz	1300MHz
<b>Intel® Hyper-threading Technology</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Intel® Advanced Vector Extensions (AVX)</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Intel® Quick Sync Video</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Intel® AES/TXT/vPro Technology</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Intel® Virtualization Technology</b>		Yes	Yes	Yes	Yes	Yes	Yes
<b>Package</b>		rPGA/BGA	rPGA/BGA	rPGA/BGA	rPGA/ BGA-1224*	rPGA/ BGA-1224*	rPGA

\* QC BGA is a different package than DC BGA





Information updated January 4, 2011

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<b>Brand</b>	CORE™ i3	CORE™ i5	CORE™ i7	CORE™ i7
<b>Processor Number</b>	i3-2310M	i5-2410M	i7-2630QM	i7-2635QM
<b>TDP</b>	35W	35W	45W	45W
<b>Cores/ Threads</b>	2/4	2/4	4/8	4/8
<b>CPU Base Freq (GHz)</b>	2.10	2.30	2.00	2.00
<b>Intel® Turbo Boost Technology 2.0 Max Frequency (GHz)</b>	<b>SC</b>	N/A	2.90	2.90
	<b>DC</b>	N/A	2.60	2.80
	<b>QC</b>	N/A	N/A	2.60
<b>DDR3 (MHz)</b>	1333MHz	1333MHz	1333MHz	1333MHz
<b>L3 Cache</b>	3MB	3MB	6MB	6MB
<b>Intel® HD Graphics 3000</b>	Yes	Yes	Yes	Yes
<b>Gfx Base Render Frequency</b>	650MHz	650MHz	650MHz	650MHz
<b>Graphics Max Dynamic Frequency</b>	1100MHz	1200MHz	1100MHz	1200MHz
<b>Intel® Hyper-threading Technology</b>	Yes	Yes	Yes	Yes
<b>Intel® Advanced Vector Extensions (AVX)</b>	Yes	Yes	Yes	Yes
<b>Intel® Quick Sync Video</b>	Yes	Yes	Yes	Yes
<b>Intel® Virtualization Technology</b>	Yes	Yes	Yes	Yes
<b>Package</b>	rPGA/BGA	rPGA/BGA	rPGA	BGA

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# All New 2<sup>nd</sup> Gen Intel® Core™ Mobile Processor (LV/ULV) Lineup

						
<b>Brand</b>		CORE™ i5	CORE™ i7	CORE™ i7	CORE™ i7	CORE™ i7
<b>Processor Number</b>		i5-2537M	i7-2617M	i7-2657M	i7-2629M	i7-2649M
<b>Price</b>		\$250	\$289	\$317	\$311	\$346
<b>TDP</b>		17W	17W	17W	25W	25W
<b>Cores/ Threads</b>		2/4	2/4	2/4	2/4	2/4
<b>CPU Base Freq (GHz)</b>		1.40	1.50	1.60	2.10	2.30
<b>Intel® Turbo Boost Technology 2.0 Max Frequency (GHz)</b>	<b>SC</b>	2.30	2.60	2.70	3.00	3.20
	<b>DC</b>	2.00	2.30	2.40	2.70	2.90
<b>DDR3 (MHz)</b>		1333MHz	1333MHz	1333MHz	1333MHz	1333MHz
<b>L3 Cache</b>		3MB	4MB	4MB	4MB	4MB
<b>Intel® HD Graphics 3000</b>		Yes	Yes	Yes	Yes	Yes
<b>Gfx Base Render Frequency</b>		350MHz	350MHz	350MHz	500MHz	500MHz
<b>Graphics Max Dynamic Frequency</b>		900MHz	950MHz	1000MHz	1100MHz	1100MHz
<b>Intel® Hyper-threading Technology</b>		Yes	Yes	Yes	Yes	Yes
<b>Intel® Advanced Vector Extensions (AVX)</b>		Yes	Yes	Yes	Yes	Yes
<b>Intel® Quick Sync Video</b>		Yes	Yes	Yes	Yes	Yes
<b>Intel® AES/TXT/vPro Technology</b>		Yes	Yes	Yes	Yes	Yes
<b>Intel® Virtualization Technology</b>		Yes	Yes	Yes	Yes	Yes
<b>Package</b>		BGA-1023*	BGA- 1023*	BGA-1023*	BGA-1023*	BGA-1023*

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# All New 2<sup>nd</sup> Gen Intel® Core™ Desktop Processor Lineup



Brand	CORE i5	CORE i5	CORE i5	CORE i7	CORE i7
Processor Number	i5-2400	i5-2500	i5-2500K	i7-2600	i7-2600K
Price (1Ku)	\$184	\$205	\$216	\$294	\$317
TDP	95W	95W	95W	95W	95W
Cores/ Threads	4/4	4/4	4/4	4/8	4/8
CPU Base Freq (GHz)	3.1	3.3	3.3	3.4	3.4
Max Turbo Freq (GHz)	3.4	3.7	3.7	3.8	3.8
DDR3 (MHz)	1333MHz	1333MHz	1333MHz	1333MHz	1333MHz
L3 Cache	6MB	6MB	6MB	8MB	8MB
Intel® HD Graphics 2000/3000	2000	2000	3000	2000	3000
Graphics Max Dynamic Frequency	up to 1100MHz	up to 1100MHz	up to 1100MHz	up to 1350MHz	up to 1350MHz
Intel® Hyper-threading Technology	No	No	No	Yes	Yes
Intel® Advanced Vector Extensions (AVX)	Yes	Yes	Yes	Yes	Yes
Intel® Quick Sync Video	Yes	Yes	Yes	Yes	Yes
Intel® vPro / TXT / VT-d / Intel® SIPP	Yes	Yes	No	Yes	No
Intel® AES-NI	Yes	Yes	Yes	Yes	Yes
Intel® Virtualization Technology	Yes	Yes	Yes	Yes	Yes
Package	LGA-1155	LGA-1155	LGA-1155	LGA-1155	LGA-1155




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Brand			
Processor Number	i3-2100	i3-2120	i5-2300
Price (1Ku)	\$117	\$138	\$177
TDP	65W	65W	95W
Cores/ Threads	2/4	2/4	4/4
CPU Base Freq (GHz)	2.93	3.3	2.8
Max Turbo Freq (GHz)	N/A	N/A	3.1
DDR3 (MHz)	1333MHz	1333MHz	1333MHz
L3 Cache	3MB	3MB	6MB
Intel® HD Graphics 2000	2000	2000	2000
Graphics Max Dynamic Frequency	up to 1100MHz	up to 1100MHz	up to 1100MHz
Intel® Hyper-threading Technology	Yes	Yes	No
Intel® Advanced Vector Extensions (AVX)	Yes	Yes	Yes
Intel® Quick Sync Video	Yes	Yes	Yes
Intel® vPro / TXT / VT-d / Intel® SIPP	No	No	No
Intel® AES-NI	No	No	Yes
Intel® Virtualization Technology	Yes	Yes	Yes
Package	LGA-1155	LGA-1155	LGA-1155

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# All New 2<sup>nd</sup> Gen Intel® Core™ Desktop Processor Lineup

## Low Power / Lifestyle

						
Brand						
Processor Number	i3-2100T	i5-2390T	i5-2400S	i5-2500T	i5-2500S	i7-2600S
Price (1Ku)						
TDP	35W	35W	65W	45W	65W	65W
Cores/ Threads	2/4	2/4	4/4	4/4	4/4	4/8
CPU Base Freq (GHz)	2.5	2.7	2.5	2.3	2.7	2.8
Max Turbo Freq (GHz)	n/a	3.5	3.3	3.3	3.7	3.8
DDR3 (MHz)	1333MHz	1333MHz	1333MHz	1333MHz	1333MHz	1333MHz
L3 Cache	3MB	3MB	6MB	6MB	6MB	8MB
Intel® HD Graphics 2000/3000	2000	2000	2000	2000	2000	2000
Graphics Max Dynamic Frequency	Up to 1100MHz	Up to 1100MHz	Up to 1100MHz	Up to 1250MHz	Up to 1100MHz	Up to 1350MHz
Intel® Hyper-threading Technology	Yes	Yes	No	No	No	Yes
Intel® Advanced Vector Extensions (AVX)	Yes	Yes	Yes	Yes	Yes	Yes
Intel® Quick Sync Video	Yes	Yes	Yes	Yes	Yes	Yes
Intel® vPro / TXT / VT-d / Intel® SIPP	No	Yes	Yes	Yes	Yes	Yes
Intel® AES-NI	No	Yes	Yes	Yes	Yes	Yes
Intel® Virtualization Technology	Yes	Yes	Yes	Yes	Yes	Yes
Package	LGA-1155	LGA-1155	LGA-1155	LGA-1155	LGA-1155	LGA-1155

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