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Product Name	Intel® Core™ i5-480M Processor (3M Cache, 2.66 GHz)	Intel® Core™ i3-390M Processor (3M Cache, 2.66 GHz)
Code Name	Arrandale	Arrandale
Status	Launched	Launched
Launch Date	Q1'11	Q1'11
Processor Number	i5-480M	i3-390M
# of Cores	2	2
# of Threads	4	4
Clock Speed	2.66 GHz	2.66 GHz
Max Turbo Frequency	2.933 GHz	
Cache	3 MB Intel® Smart Cache	3 MB Intel® Smart Cache
Bus/Core Ratio	20	20
Bus Type	DMI	DMI
System Bus	2.5 GT/s	2.5 GT/s
Instruction Set	64-bit	64-bit
Instruction Set Extensions	SSE4.1, SSE4.2	SSE4.1, SSE4.2
Embedded Options Available	No	No
Lithography	32 nm	32 nm
Max TDP	35 W	35 W
<b>Memory Specifications</b>		
Max Memory Size (dependent on memory type)	8 GB	8 GB
Memory Types	DDR3-800/1066	DDR3-800/1066
# of Memory Channels	2	2
Max Memory Bandwidth	17.1 GB/s	17.1 GB/s
Physical Address Extensions	36-bit	36-bit
ECC Memory Supported	No	No
<b>Graphics Specifications</b>		
Integrated Graphics	<a href="#">Yes</a>	<a href="#">Yes</a>
Intel® HD Graphics	<a href="#">Yes</a>	<a href="#">Yes</a>
Intel® HD Graphics with Dynamic Frequency	<a href="#">Yes</a>	<a href="#">Yes</a>
Graphics Base Frequency	500 MHz	500 MHz
Graphics Max Dynamic Frequency	766 MHz	667 MHz
Intel® Flexible Display Interface (Intel® FDI)	<a href="#">Yes</a>	<a href="#">Yes</a>
Intel® Clear Video Technology	<a href="#">Yes</a>	<a href="#">Yes</a>
Intel® Clear Video HD Technology	<a href="#">Yes</a>	<a href="#">Yes</a>
Dual Display Capable	<a href="#">Yes</a>	<a href="#">Yes</a>
Macrovision* License Required	No	No
<b>Expansion Options</b>		
PCI Express Revision	2.0	2.0
PCI Express Configurations	1x16	1x16
# of PCI Express Ports	1	1
<b>Package Specifications</b>		

Max CPU Configuration	1	1
T <sub>JUNCTION</sub>	105°C	90°C for rPGA, 105°C for BGA
Package Size	rPGA 37.5mmx 37.5mm, BGA 34mmx28mm	rPGA 37.5mmx 37.5mm, BGA 34mmx28mm
Lithography	32 nm	32 nm
Processing Die Size	81 mm <sup>2</sup>	81 mm <sup>2</sup>
# of Processing Die Transistors	382 million	382 million
Graphics and IMC Lithography	45 nm	45 nm
Graphics and IMC Die Size	114 mm <sup>2</sup>	114 mm <sup>2</sup>
# of Graphics and IMC Die Transistors	177 million	177 million
Sockets Supported	BGA1288, PGA988	BGA1288, PGA988
<b>Advanced Technologies</b>		
Intel® Turbo Boost Technology	Yes	No
Intel® Hyper-Threading Technology	Yes	Yes
Intel® Virtualization Technology (VT-x)	Yes	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	No	No
Intel® Trusted Execution Technology	No	No
AES New Instructions	No	No
Intel® 64	Yes	Yes
Idle States	Yes	Yes
Enhanced Intel SpeedStep® Technology	Yes	Yes
Thermal Monitoring Technologies	Yes	Yes
Intel® Fast Memory Access	Yes	Yes
Intel® Flex Memory Access	Yes	Yes
Execute Disable Bit	Yes	Yes