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Product Name	Intel® Atom™ Processor N570 (1M Cache, 1.66 GHz)	Intel® Atom™ processor N455 (512K Cache, 1.66 GHz)
Code Name	Pineview	Pineview
Status	Launched	Launched
Launch Date	Q1'11	Q2'10
Processor Number	N570	N455
# of Cores	2	1
# of Threads	4	2
Clock Speed	1.66 GHz	1.66 GHz
Cache	1 MB L2 Cache	512 KB L2 Cache
Bus/Core Ratio		10
Bus Type	DMI	DMI
System Bus	2.5 GT/s	2.5 GT/s
Instruction Set	64-bit	64-bit
Instruction Set Extensions	SSE2, SSE3, SSSE3	SSE2, SSE3, SSSE3
Embedded Options Available	No	Yes
Lithography	45 nm	45 nm
Max TDP	8.5 W	6.5 W
Recommended Channel Price	\$86.00	\$64.00
Max Memory Size (dependent on memory type)	2 GB	2 GB
Memory Types	DDR3	DDR2/3
# of Memory Channels	1	1
Integrated Graphics	Yes	Yes
Graphics Base	200 MHz	200 MHz

Frequency		
T <sub>JUNCTION</sub>		100°C
Package Size	22mm x 22mm	22mm x 22mm
Processing Die Size	87 mm <sup>2</sup>	66 mm <sup>2</sup>
# of Processing Die Transistors	176 million	123 million
Sockets Supported		FCBGA559
Halogen Free Options Available	Yes	Yes
Intel® Turbo Boost Technology	No	No
Intel® Hyper-Threading Technology	Yes	Yes
Intel® Virtualization Technology (VT-x)	No	No
Intel® Virtualization Technology for Directed I/O (VT-d)	No	No
Intel® Trusted Execution Technology	No	No
Intel® 64	Yes	Yes
Enhanced Intel SpeedStep® Technology	Yes	Yes
Intel® Demand Based Switching	No	No
Thermal Monitoring Technologies	Yes	Yes
Execute Disable Bit	Yes	Yes