

Intel® Atom™ Processor SKUs

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Ultra Mobility Group
Intel Corporation



Intel® Atom™ Processor Z-series SKUs

No.	SKU	MHz	Power (W)			FSB Features	Memory Addressing	L2 Cache	Die Size
			TDP Power ¹	Ave Power ²	Idle Power (C6) ³				
1.	Z500	800MHz	0.65W	160mW ²	80mW	400MHz	1GB	512K	7.8mm x 3.1mm
2.	Z510	1.1GHz	2W	220mW ²	100mW	400MHz	2 GB		
NEW	Z515	1.2GHz enabled with "Intel® Burst Performance Technology (Intel® BPT)"	1.4W (for BFM 1.2Ghz) 0.65W (for HFM 800Mhz)	160mW ²	80mW	400MHz HT	1 / 2 GB ⁴		
4.	Z520	1.33GHz	2W	220mW ²	100mW	533MHz HT	2GB		
5.	Z530	1.6GHz	2W	220mW ²	100mW	533MHz HT			
6.	Z540	1.86GHz	2.4W	220mW ²	100mW	533MHz HT			
NEW	Z550	2GHz	2.4W	220mW ²	100mW	533MHz HT			

1: TDP specification should be used to design the processor thermal solution. Thermal solutions not designed to provide this level of thermal capability may affect the long-term reliability of the processor and system.

2: Average power is defined as measured CPU power whilst running BAPCo MobileMark'05 Office Productivity suite on Microsoft® Windows® XP for a period of 90min at 50°C . Assumes top bin frequency, median leakage, Adaptive mode. By median leakage device it means that 50% of the CPUs will have leakage values below the median value and 50% will have leakage values above the median.

3: Idle power on the Intel Atom processor is defined as the power in the Intel Deep Power Down state (C6 state). Intel Deep Power Down Technology (C6) is the lowest power state of the CPU when the core clock, PLL, L1 cache, and L2 cache are off. Z510, Z520, Z530, Z540, Z550 is measured while running Idle under Microsoft® Windows Vista® Home Premium for a period of 30mins. Z500, Z515 is measured while running Idle under Moblin-based Linux* for a period of 30mins. By median leakage device it means that 50% of the CPUs will have leakage values below the median value and 50% will have leakage values above the median.

4: Memory addressing depends on choice of chipset.

