Intel Atom® Processor Z510P

512K Cache, 1.10 GHz, 400 MHz FSB

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Essentials

Export specifications

Product Collection	Legacy Intel Atom® Processors
Code Name	Products formerly Silverthorne
Vertical Segment	Mobile
Processor Number	Z510P
Status	Discontinued
Launch Date	Q2'08
Lithography	45 nm
Use Conditions	Communications

Performance

# of Cores	1
Processor Base Frequency	1.10 GHz
Cache	512 KB L2
Bus Speed	400 MHz FSB
FSB Parity	No
TDP	2.2 W
VID Voltage Range	0.8V-1.1V

Supplemental Information

Embedded Options Available	Yes
Datasheet	View now

Package Specifications

Sockets Supported	FCBGA437
$T_{JUNCTION}$	90°C
Package Size	22mm x 22mm
Processing Die Size	26 mm^2
# of Processing Die Transistors	47 million
Low Halogen Options Available	Yes

Advanced Technologies

Intel® Turbo Boost Technology ‡	No
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	No
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	No
Intel® 64 ‡	No
Instruction Set	32-bit
Instruction Set Extensions	Intel® SSE2, Intel® SSE3, Intel® SSSE3
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes

Security & Reliability

Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes

More support options for Intel Atom® Processor Z510P (512K Cache, 1.10 GHz, 400 MHz FSB)

Product Support

Downloads and Software

Support Community

Warranty and Replacement

Need more help?

Contact support

Give Feedback

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.