



# Intel Core i5 Mobile i5-2510E

## General information

Type	CPU / Microprocessor
Market segment	Mobile
Family	Intel Core i5 Mobile
Model number	I5-2510E
CPU part number	FF8062700853304 (SR02U)
<b>Frequency (MHz)</b>	<b>2500</b>
Turbo frequency (MHz)	3100
<b>Clock multiplier</b>	<b>25</b>
Package	988-pin micro-FCPGA10 (rPGA988B)
<b>Socket</b>	<b>Socket G2 (rPGA988B)</b>

## Architecture / Microarchitecture

Microarchitecture	Sandy Bridge
Manufacturing process	0.032 micron High-K metal gate process
<b>Data width</b>	<b>64 bit</b>
<b>Number of cores</b>	<b>2</b>
Floating Point Unit	Integrated
<b>Level 2 cache size</b>	<b>2 x 256 KB</b>
<b>Level 3 cache size</b>	<b>3 MB</b>
Physical memory (GB)	8
Features	<ul style="list-style-type: none"><li>• MMX instruction set</li><li>• SSE</li><li>• SSE2</li><li>• SSE3</li><li>• Supplemental SSE3</li><li>• SSE4.1</li><li>• SSE4.2</li><li>• AES instructions</li><li>• Advanced Vector Extensions</li><li>• Extended Memory 64 technology (EM64T)</li><li>• Execute disable bit</li><li>• HyperThreading technology</li><li>• Turbo Boost technology 2.0</li><li>• Virtualization technology (VT-x/VT-d)</li><li>• Trusted Execution technology</li></ul>

Low power features	Enhanced SpeedStep technology
On-chip peripherals	<ul style="list-style-type: none"><li>• Integrated dual-channel DDR3 SDRAM Memory controller</li><li>• Graphics controller</li></ul>

## Electrical/Thermal parameters

<b>Thermal Design Power (W)</b>	<b>35</b>
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## Notes on Intel FF8062700853304

- Embedded microprocessor
- Integrated graphics controller runs at 650 MHz, and up to 1.1 GHz in Turbo mode
- Memory controller supports DDR3-1066 and DDR3-1333 memory