



Intel Core i5 Mobile i5-2510E

General information

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

Architecture / Microarchitecture

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| Microarchitecture | Sandy Bridge |
| Manufacturing process | 0.032 micron High-K metal gate process |
| Data width | 64 bit |
| Number of cores | 2 |
| Floating Point Unit | Integrated |
| Level 2 cache size | 2 x 256 KB |
| Level 3 cache size | 3 MB |
| Physical memory (GB) | 8 |

Features

- MMX instruction set
- SSE
- SSE2
- SSE3
- Supplemental SSE3
- SSE4.1
- SSE4.2
- AES instructions
- Advanced Vector Extensions
- Extended Memory 64 technology (EM64T)
- Execute disable bit
- HyperThreading technology
- Turbo Boost technology 2.0
- Virtualization technology (VT-x/VT-d)
- Trusted Execution technology

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

Electrical/Thermal parameters

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|---------------------------------|-----------|
| Thermal Design Power (W) | 35 |
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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