



# Intel Core i7 Mobile i7-2710QE

## General information

Type	CPU / Microprocessor
Market segment	Mobile
Family	Intel Core i7 Mobile
Model number	I7-2710QE
CPU part number	FF8062700841002 (SR02T)
<b>Frequency (MHz)</b>	<b>2100</b>
Turbo frequency (MHz)	3000
<b>Clock multiplier</b>	<b>21</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>4</b>
Floating Point Unit	Integrated
<b>Level 2 cache size</b>	<b>4 x 256 KB</b>
<b>Level 3 cache size</b>	<b>4 MB</b>
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

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>45</b>
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## Notes on Intel FF8062700841002

- Embedded microprocessor
- Integrated graphics controller runs at 650 MHz, and up to 1.2 GHz in Turbo mode
- Memory controller supports DDR3-1066, DDR3-1333 and DDR3-1600 memory