



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)
Frequency (MHz)	2100
Turbo frequency (MHz)	3000
Clock multiplier	21
Package	988-pin micro-FCPGA10 (rPGA988B)
Socket	Socket G2 (rPGA988B)

Architecture / Microarchitecture

Microarchitecture	Sandy Bridge
Manufacturing process	0.032 micron High-K metal gate process
Data width	64 bit
Number of cores	4
Floating Point Unit	Integrated
Level 2 cache size	4 x 256 KB
Level 3 cache size	4 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

Low power features	Enhanced SpeedStep technology
On-chip peripherals	• Integrated dual-channel DDR3 SDRAM Memory controller • Graphics controller

Electrical/Thermal parameters

Thermal Design Power (W)	45
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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