Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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**

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