Intel Celeron B800 specifications

General information

Type	CPU / Microprocessor
Market segment	Mobile
Family	Intel Mobile Celeron Dual-Core
Model number ?	**B800**
CPU part number	**FF8062701142600** is an OEM/tray microprocessor
Frequency ?	**1500 MHz**
Bus speed ?	**5 GT/s DMI**
Clock multiplier ?	**15**
Package	988-pin micro-FCPGA10 (rPGA988B)
Socket	**Socket G2 / rPGA988B**
Size	1.48" x 1.48" / 3.75cm x 3.75cm
Weight	0.2oz / 5.7g
Introduction date	June 19, 2011
End-of-Life date	Last order date for tray processors is February 21, 2014 Last shipment date for tray processors is August 8, 2014
Price at introduction	$86

S-spec numbers

	ES/QS processors	Production processors
Part number	**QB1U**	**SR0EW**
FF8062701142600	+	+

Architecture / Microarchitecture

Microarchitecture	Sandy Bridge
Processor core ?	Sandy Bridge
Core stepping ?	Q0 (QB1U, SR0EW)
CPUID	206A7 (SR0EW)
Manufacturing process	0.032 micron High-K metal gate process
Data width	**64 bit**
The number of cores	**2**
The number of threads	**2**
Floating Point Unit	Integrated
Level 1 cache size ?	2 x 32 KB 8-way set associative instruction caches 2 x 32 KB 8-way set associative data caches
Level 2 cache size ?	**2 x 256 KB 8-way set associative caches**
Level 3 cache size	**2 MB 8-way set associative shared cache**
Physical memory	16 GB
Multiprocessing	Not supported
Features	- MMX instructions - SSE / Streaming SIMD Extensions - SSE2 / Streaming SIMD Extensions 2 - SSE3 / Streaming SIMD Extensions 3 - SSSE3 / Supplemental Streaming SIMD Extensions 3 - SSE4 / SSE4.1 + SSE4.2 / Streaming SIMD Extensions 4 ?

- EM64T / Extended Memory 64 technology / Intel 64 ?
- NX / XD / Execute disable bit ?
- VT-x / Virtualization technology ?

Low power features   Enhanced SpeedStep technology ?

Integrated peripherals / components

Integrated graphics   GPU Type: HD (Sandy Bridge)
Base frequency (MHz): 650
Maximum frequency (MHz): 1000
The number of supported displays: 2

Memory controller   The number of controllers: 1
Memory channels: 2
Supported memory: DDR3-1066, DDR3-1333
Maximum memory bandwidth (GB/s): 21.3

Other peripherals
- Direct Media Interface 2.0
- PCI Express 2.0 interface

Electrical / Thermal parameters

Maximum operating temperature ?   100°C

Thermal Design Power ?   **35 Watt**

Notes on Intel Celeron B800

- The CPU is compatible with Shader Model 4.1, along with DirectX 10.1 and OpenGL 3.1 APIs. OpenCL API is not supported.