



# Intel® Celeron® Processor B810 (2M Cache, 1.60 GHz)

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## SPECIFICATIONS

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## SPECIFICATIONS

### Essentials

Status	Launched
Launch Date	Q1'11
Processor Number	B810
# of Cores	2
# of Threads	2
Clock Speed	1.6 GHz
Intel® Smart Cache	2 MB
Bus/Core Ratio	16
Instruction Set	64-bit
Instruction Set Extensions	SSE4.x
Embedded Options Available	 Yes
Lithography	32 nm
Max TDP	35 W
Recommended Channel Price	\$86.00

### Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3-1066/1333
# of Memory Channels	2
Max Memory Bandwidth	21.3 GB/s
ECC Memory Supported	No

### Graphics Specifications

Integrated Graphics	 Yes
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	950 MHz
Graphics Output	eDP/DP /HDMI/SDVO/CRT
Intel® Quick Sync Video	No
Intel® InTru™ 3D Technology,	No
Intel® Wireless Display	No
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	No
Dual Display Capable	Yes
Macrovision* License Required	No

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## ADDITIONAL INFORMATION

### SEARCH DISTRIBUTORS

**FF8062700848800**  
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### PCN/MDDS INFORMATION

<b>Expansion Options</b>	
PCI Express Revision	2.0
PCI Express Configurations	 1x16, 2x8, 1x8 2x4
# of PCI Express Ports	8
<b>Package Specifications</b>	
Max CPU Configuration	1
T <sub>JUNCTION</sub>	100C
Package Size	37.5mmx37.5mm (rPGA988B)
Graphics and IMC Lithography	32 nm
Sockets Supported	PGA988
Halogen Free Options Available	Yes

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See [www.intel.com/products/ht/hyperthreading\\_more.htm](http://www.intel.com/products/ht/hyperthreading_more.htm) for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

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Halogen Free implies the following:

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Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounds, or by appropriate material declarations agreed to between customer and supplier.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See [www.intel.com/technology/turboboost/](http://www.intel.com/technology/turboboost/) for more information.

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**Advanced Technologies**

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Intel® Turbo Boost Technology No

[Intel® Hyper-Threading Technology](#)  No

[Intel® Virtualization Technology \(VT-x\)](#)  Yes

[Intel® Virtualization Technology for Directed I/O \(VT-d\)](#)  No

[Intel® Trusted Execution Technology](#)  No

AES New Instructions  No

[Intel® 64](#)  Yes

Intel® Anti-Theft Technology No

Intel® My WiFi Technology No

4G WiMAX Wireless Technology No

Idle States Yes

[Enhanced Intel SpeedStep® Technology](#)  Yes

[Intel® Demand Based Switching](#)  No

Thermal Monitoring Technologies Yes

[Intel® Fast Memory Access](#) Yes

[Intel® Flex Memory Access](#) Yes

Execute Disable Bit Yes

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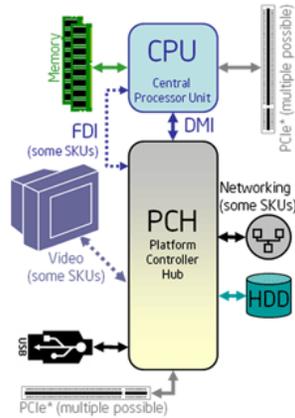
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#### Intel® Celeron® Processor B810 (2M Cache, 1.60 GHz) FC-PGA10, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
PGA988	Q0	35 Watts	FF8062700848800	SR088	Yes	Yes

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