



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

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## SPECIFICATIONS

All

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies


## COMPATIBLE PRODUCTS

## BLOCK DIAGRAMS

## ORDERING / SPECS / STEPPINGS

## 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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## QUICK LINKS


- [Products formerly Sandy Bridge](#)
- [No Datasheet Available](#)

## ADDITIONAL INFORMATION

### SEARCH DISTRIBUTORS

**FF8062700848800**  
Buy From: [Arrow](#) | [Avnet](#)

### 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  |

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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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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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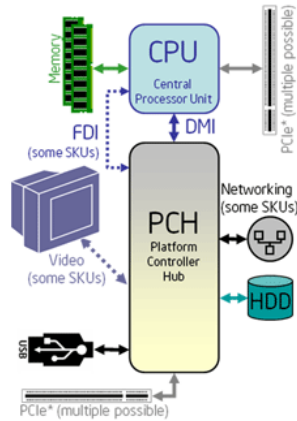
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## ORDERING AND SPEC INFORMATION

### Ordering and Spec Information

#### 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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