

Building with the Intel® Celeron® D Processor

Features

Based on Intel's industry leading 90nm process technology, Intel® Celeron® D processors in the 478-pin package now have 256KB L2 cache and 533 MHz front side bus.

Frequency

Intel is introducing processor numbers as a means to identify the various features of the Celeron® D processor. The processor numbers assigned for the Celeron D processor are 320, 325, 330 and 335 which represent operating frequencies 2.40, 2.53, 2.66 and 2.80 GHz, 256MB L2 cache and 533 MHz front side bus. For more information on processor numbers go to: http://www.intel.com/products/processor_number/index.htm

Board Support

Intel® 865 and Intel® 845 chipset based platforms are compatible with the Celeron D processors in the 478-pin package and require a board designed to Intel 90nm process technology specifications supporting 533 MHz front side bus. Contact your board manufacturer for compatibility.

See Motherboard Selector Guide at: <http://indigo.intel.com/mbsg/>

Thermal Requirements

The architecture of the Celeron D processor which enables higher frequencies and wider functionality resulted in a change in the thermal specifications for the processor. A higher performing thermal solution is required to meet the thermal requirements of processors manufactured on 90nm process technology. The boxed Intel® Celeron® D processor features a thermal solution designed by Intel to provide an effective cooling solution that matches the processor. To minimize the acoustic noise levels generated from running the fan at higher speed for thermal performance, Intel recommends that Celeron D processor platforms be built with a Thermally Advantaged Chassis (TAC) version 1.0

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A Thermally Advantaged Chassis version 1.0 will have an 80mm or larger rear chassis fan and is designed to meet a 38°C ambient chassis temperature. A properly cooled system will help it run more reliably and minimize the fan noise. Intel recommends the use of TAC for all systems built with the Intel® Celeron® D processor. For more chassis information go to: www.intel.com/go/chassis

What does a Thermally Advantaged Chassis version 1.0 look like?



(These examples are for illustration purposes only)