



Ultra Low Voltage Intel® Celeron® Processor For Applied Computing

Product Overview

The Ultra Low Voltage Intel® Celeron® processors now provide an exceptional value for thermally sensitive and space-constrained applied computing applications by combining the optimal balance of cost, performance, and low power. Available in the small form factor μ FCBGA package at 400 MHz or 650 MHz with 256K of on-die L2 Cache. These processors are ideal solutions for communication appliances such as media center appliances, network attached storage, Web pads and other applications with lower-power envelopes and BOM requirements.



Product Highlights

400 MHz and 650 MHz

- Built on the Intel® 0.13 micron process
- 256K full-speed on-die L2 Cache operating at core frequency
- Low-profile, surface-mount μ FCBGA package
 - μ FCBGA package (35 x 35 mm)
 - 479 balls in area array
 - Tjunction: 0° to 100°C

Functional Features

- MMX™ technology
- Floating Point Unit (FPU)
- Dynamic Execution Micro-Architecture
- On-Die L2 Cache with Error Checking and Correcting (ECC)

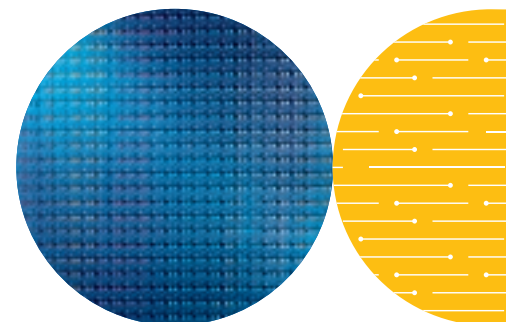
Ultra Low Voltage 400 MHz

- 400 MHz processor speed
- 100 MHz processor side bus
- 4.2W TDP (max), 3.75W TDP (typ)
- Supported with Intel® 440MX and Intel® 815E Chipsets

Ultra Low Voltage 650 MHz

- 650 MHz processor speed
- 100 MHz processor side bus
- 8.3W TDP (max), 7.0W TDP (typ)
- Supported with Intel 440MX and Intel 815E Chipsets

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Product Description

The Embedded Intel® Architecture ultra low voltage family features a 100 MHz processor side bus, designed for a faster transfer of data, to yield an increase in performance. The 256K of on-die L2 Cache combined with the efficiencies of the 0.13 micron manufacturing processes offers good performance for value-based systems. The compact form factor results in a low profile, meeting small space requirement. This enables a variety of value-based designs for thermally sensitive and space-constrained environments.

Ultra Low Voltage Intel® Celeron® Processor

Product Number	Core Speed (MHz)	External Bus Speed (MHz)	L2 Cache	Thermal Design Power (Max)	Voltage	Tjunction	Package
RJ80530VY650256	650	100	256K	8.3W	1.1V	0-100°C	479µFCBGA
RJ80530VY400256	400	100	256K	4.2W	0.95V	0-100°C	479µFCBGA

Intel Access

Developer's Site:	developer.intel.com
Embedded Intel® Architecture Home Page:	developer.intel.com/design/intarch
Other Intel Support:	Intel Literature Center developer.intel.com/design/litcentr/ (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
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