



Pentium[®] III Processor for the PGA370 Socket at 500 MHz to 1.13 GHz

Datasheet

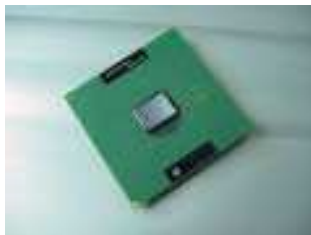
Revision 8

Product Features

- Available in 1.13 GHz, 1B GHz, 933, 866, 800EB, 733, 667, 600EB, and 533EB MHz for a 133 MHz system bus
- Available in 1.10 GHz, 1 GHz, 900, 850, 800, 750, 700, 650, 600E, 550E, and 500E MHz for a 100 MHz system bus
- System bus frequency at 100 MHz and 133 MHz (“E” denotes support for Advanced Transfer Cache and Advanced system buffering; “B” denotes support for a 133 MHz system bus where both bus frequencies are available for order per each given core frequency; See Table 1 for a summary of features for each line item.)
- Available in versions that incorporate 256-KB Advanced Transfer Cache (on-die, full speed Level 2 (L2) cache with Error Correcting Code (ECC))
- Dual Independent Bus (DIB) architecture: Separate dedicated external System Bus and dedicated internal high-speed cache bus
- Internet Streaming SIMD Extensions for enhanced video, sound and 3D performance
- Binary compatible with applications running on previous members of the Intel microprocessor line
- Dynamic execution micro architecture
- Intel Processor Serial Number
- Power Management capabilities
 - System Management mode
 - Multiple low-power states
- Optimized for 32-bit applications running on advanced 32-bit operating systems
- Flip Chip Pin Grid Array (FC-PGA/FC-PGA2) packaging technology; FC-PGA/FC-PGA2 processors deliver high performance with improved handling protection and socketability
- Integrated high performance 16-KB instruction and 16-KB data, nonblocking, level one cache
- 256-KB Integrated Full Speed level two cache allows for low latency on read/store operations
- Double Quad Word Wide (256 bit) cache data bus provides extremely high throughput on read/store operations.
- 8-way cache associativity provides improved cache hit rate on reads/store operations.
- Error-correcting code for System Bus data
- Enables systems which are scaleable for up to two processors

The Pentium[®] III processor is designed for high-performance desktops and for workstations and servers. It is binary compatible with previous Intel Architecture processors. The Pentium III processor provides great performance for applications running on advanced operating systems such as Windows* 98, Windows NT and UNIX*. This is achieved by integrating the best attributes of Intel processors—the dynamic execution, Dual Independent Bus architecture plus Intel MMX™ technology and Internet Streaming SIMD Extensions—bringing a new level of performance for systems buyers. The Pentium III processor is scaleable to two processors in a multiprocessor system and extends the power of the Pentium[®] II processor with performance headroom for business media, communication and internet capabilities. Systems based on Pentium III processors also include the latest features to simplify system management and lower the cost of ownership for large and small business environments. The Pentium III processor offers great performance for today’s and tomorrow’s applications.

FC-PGA370 Package



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