



Product Change Notification

105271 – 00

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

Americas Contact: asmo.pcn@intel.com

Asia Pacific Contact: apacgccb@intel.com

Europe Email: eccb@intel.com

Japan Email: jccb.ijkk@intel.com

Copyright © Intel Corporation 2005. Other names and brands may be claimed as the property of others.

AlertVIEW, AnyPoint, AppChoice, EtherExpress, FlashFile, i386, i486, i960, Intel, Celeron, Intel486, Intel740, IntelDX2, IntelDX4, IntelSX2, Itanium, LANDesk, LanRover, Pentium, Xeon, Intel Xeon, NetMerge, NetStructure, OverDrive, Paragon, PDCharm, StrataFlash is a trademark or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Learn how to use Intel Trade Marks and Brands correctly at <http://www.intel.com/intel/legal/tmusage2.htm>.



Product Change Notification

Change Notification #: 105271 - 00

Change Title: Desktop Intel® Pentium® 4 Processor on 90nm Process in the 775-Land Package, PCN 105271-00, FFF, Enhanced Memory 64 Technology E-0 to G-1 core stepping conversion

Date of Publication: Aug 15, 2005

Type of Change Notification:

FFF - (Form-Fit-Function)

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date of Samples Availability:	Sept 09, 2005
Date of Qualification Data Availability:	Nov 01, 2005
Date Customer Must be Ready to Receive Post-Conversion Material:	Nov 14, 2005
Date of First Availability of Post-Conversion Material:	Oct 17, 2005

The date of "First Availability of Post-Conversion Material" is the projected date that a customer may expect to receive the Post-Conversion Materials. This date is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand, therefore, although customers should be prepared to receive the Post-Converted Materials on this date, Intel will continue to ship and customers may continue to receive the pre-converted materials until the inventory has been depleted.

Description of Change to the Customer:

The Desktop Intel® Pentium® 4 processors on 90 nm process in the 775-land package will undergo the following changes for the E-0 with Enhanced Memory 64 Technology (EM64T) to the G-1 core processor stepping change:

- The CPU ID will change from 0xF41h to 0xF49h
- Updated BIOS is required
- Desktop G-1 Step processors will be Pb-Free Second Level Interconnect (SLI) / RoHS compliant and the integrated heat spreader (IHS) will be marked per JESD97 guidelines with e4 designation
- Addition of 2 new EM64T instructions LAHF/SAHF
- G-1 is pin compatible with E-0. The thermal/mechanical specification is within overall package height specification
- Intel anticipates no impact to current platforms designed to Intel guidelines
- New S-Specs for affected product line items

NDA Spec Update will be available in September. Customer qualification is required.

Customer Impact of Change and Recommended Action:

Although no significant changes are expected in electrical and thermal specifications relative to the G-1 stepping, it is recommended that you complete a full qualification with the Desktop Intel® Pentium® 4 processor on 90 nm process in the 775 - land package based on the new G-1 stepping core.

Samples will be limited to 3.40 GHz frequency limited parts only. To validate lower frequencies, customers are requested to down-clock samples to lower frequencies for facilitating validation of systems at the lower frequencies.

Products Affected / Intel Ordering Codes:

Desktop Intel® Pentium® 4 Processors with 800 FSB on 90nm Process in the 775 - Land Package

Pre-Conversion Production Units					Post-Conversion Qualification Samples		Post-Conversion Production Units			
Frequency	Production Codes	Processor Number	S-Spec	MM #	QDF #	MM #	Production Codes	Processor Number	S-Spec	MM #
3.40 GHz	JM80547PG0961MM	551	SL8J5	871214	QFIL	870843	HH80547PG0961MM	551	SL8PS	872744
3.20 GHz	JM80547PG0881MM	541	SL8J2	871213			HH80547PG0881MM	541	SL8PR	872743
3 GHz	JM80547PG0801MM	531	SL8HZ	871206			HH80547PG0801MM	531	SL8PQ	872741
2.80 GHz	JM80547PG0721MM	521	SL8HX	871198			HH80547PG0721MM	521	SL8PP	872739

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

Revision Number:

Reason:

Aug 15, 2005

00

Originally Published PCN