



Product Change Notification

106385 - 00

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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.

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Product Change Notification

Change Notification #: 106385 - 00
Change Title: Intel® Network Processor IXP28x0
Conversion to IXP28x5.A1 Stepping Material,
PCN 106385-00, Order Code
Date of Publication: June 1, 2006

Key Characteristics of the Change:

Order Code

Forecasted Key Milestones:

Date of Qualification Data Availability:	Jun 02, 2006
Date Customer Must be Ready to Receive Post-Conversion Material:	Dec 22, 2006
Date of First Availability of Post-Conversion Material:	Jun 01, 2006
Last Order date for IXP28x0 Material	September 22, 2006
Last Ship Date for IXP28x0 Material:	December 22, 2006

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 products listed in the Component Product Table will undergo the following changes in order to improve reliability performance.

In order to continue using Intel®IXP28xx Network Processors customers will need to migrate their IXP28x0 B1 Step developments to IXP28x5 A1 Step based designs.

Customers have two options to update their designs:

1. Customers can migrate to the new IXP28x5 A1 Step Standard SKUs, which may require a board level resistor change due to the lower core voltage of the IXP28x5 devices, as well as minor initialization code modifications which are provided in the application note Intel® IXP2805 Network Processor IXP2800 to IXP2805 Migration Application Note and Intel® IXP28x5 Network Processor Hardware Initialization Manual

2. Customers may migrate IXP28x0 B1 Step designs to IXP28x5 A1 Step designs via IXP28x5 A1 Step 1.3V Replacement SKUs. This migration requires no board level changes and allows for an ease of SW migration. Customers should review [Intel® IXP28x5 Product Line of Network Processors 1.3V SKUs Application Note](#) for details on migrating their IXP28x0 B1 Step designs to IXP28x5 A1 Step 1.3V Replacement SKUs.

Customer Impact of Change and Recommended Action:

1. Designs migrating from IXP28x0 B1 Step designs to the Standard SKUs of the IXP28x5 A1 Step should review the [Intel® IXP2805 Network Processor IXP2800 to IXP2805 Migration Application Note](#) and [Intel® IXP28x5 Network Processor Hardware Initialization Manual](#) to understand the board level change required as well as initialization SW changes required.

2. Designs migrating from IXP28x0 B1 Step designs to the IXP28x5 A1 Step, 1.3V replacement SKUs should review the [Intel® IXP28x5 Product Line of Network Processors 1.3V SKUs Application Note](#) to understand the considerations required to migrate to this material.

Products Affected / Intel Ordering Codes:

Component Product Table

Intel Pre-Conversion Product Code	Pre-Conversion MM#	Pre- Conversion Description	Intel Post-Conversion Product Code	Post-Conversion MM#	Post-Conversion Description
RPIXP2800BC	862907	Pb IXP2800 B1 Non Crypto 650MHz	RPIXP2805AA	880596	IXP2805 A1 Pb -Non-Crypto 650MHz
RPIXP2800BA	862117	Pb IXP2800 B1 Non Crypto 1.0 GHz	RPIXP2805AB	880597	IXP2805 A1 Pb -Non-Crypto 1.0 GHz
			RPIXP2805ABR	880603	IXP2805 A1 Pb-Non-Crypto 1.0 GHz 1.3V Replacement SKU
RPIXP2800BB	855650	Pb IXP2800 B1 Non Crypto 1.4 GHz	RPIXP2805AC	880599	IXP2805 A1 Pb -Non-Crypto 1.4 GHz
			RPIXP2805ACR	880602	IXP2805 A1 Pb-Non-Crypto 1.4 GHz 1.3V Replacement SKU
RPIXP2850BC	862910	Pb IXP2850 B1 Crypto 650MHz	RPIXP2855AA	880600	IXP2805 A1 Pb -Crypto 650MHz

RPIXP2850BA	862113	Pb IXP2800 B1 Crypto 1.0 GHz	RPIXP2855AB	880634	IXP2805 A1 Pb -Crypto 1.0 GHz
			RPIXP2855ABR	880637	IXP2805 A1 Pb-Crypto 1.0 GHz 1.3V Replacement SKU
RPIXP2850BB	862114	Pb IXP2800 B1 Crypto 1.4 GHz	RPIXP2855AC	880635	IXP2855 A1 Pb -Crypto 1.4 GHz
			RPIXP2855ACR	880638	IXP2855 A1 Pb-Crypto 1.4 GHz 1.3V Replacement SKU
NPIXP2800BC	865538	Pb Free IXP2800 B1 Non Crypto 650MHz	NPIXP2805AA	880645	IXP2805 A1 Pb Free -Non- Crypto 650MHz
NPIXP2800BA	865540	Pb Free IXP2800 B1 Non Crypto 1.0 GHz	NPIXP2805AB	880696	IXP2805 A1 Pb Free-Non- Crypto 1.0 GHz
			NPIXP2805ABR	880661	IXP2805 A1 Pb Free-Non- Crypto 1.0 GHz 1.3V Replacement SKU
NPIXP2800BB	865539	Pb Free IXP2800 B1 Non Crypto 1.4 GHz	NPIXP2805AC	880700	IXP2805 A1 Pb Free-Non- Crypto 1.4 GHz
			NPIXP2805ACR	880662	IXP2805 A1 Pb Free-Non- Crypto 1.4 GHz 1.3V Replacement SKU
NPIXP2850BC	865535	Pb Free IXP2850 B1 Crypto 650MHz	NPIXP2855AA	880670	IXP2855 A1 Pb Free -Crypto 650MHz

NPIXP2850BA	865537	Pb Free IXP2800 B1 Crypto 1.0 GHz	NPIXP2855AB	880669	IXP2855 A1 Pb Free -Crypto 1.0 GHz
			NPIXP2855ABR	880663	IXP2855 A1 Pb Free-Crypto 1.0 GHz 1.3V Replacement SKU
NPIXP2850BB	865536	Pb Free IXP2800 B1 Crypto 1.4 GHz	NPIXP2855AC	880668	IXP2855 A1 Pb Free -Crypto 1.4 GHz
			NPIXP2855ACR	880652	IXP2855 A1 Pb Free-Crypto 1.4 GHz 1.3V Replacement SKU

Reference Documents / Attachments:

Document:

Location #:

Document: Intel® IXP2805 Network Processor
IXP2800 to IXP2805 Migration Application Note

www.intel.com/go/hdk

Document: Intel® IXP28x5 Network Processor
Hardware Initialization Manual

www.intel.com/go/hdk

Document: Intel® IXP28x5 Product Line of
Network Processors 1.3V SKUs Application Note

www.intel.com/go/hdk

PCN Revision History:

Date of Revision:

Revision Number:

Reason:

June 1, 2006

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Originally Published PCN