Numonyx StrataFlash Embedded Memory (P30) Conversion Milestone Update

PCN

DOCUMENT HISTORY

Version	Release Date	Change Qualifier
Rev 1.0	17−May−2010	Product/Process change
First time creation, so no history needed.		

DOCUMENT APPROVAL

Name	Function	Date
Rotz, Steven	Division Product Manager	14−May−2010
Bader, Jeffrey	Division Marketing Manager	17−May−2010
Uribe, Melissa	Division QA Manager	17−May−2010

REFERENCED DOCUMENTS

Document Id	Document Type	Document Title	Relation Name
CD00226260	Impacted Product and Customer	Numonyx StrataFlash Embedded Memory (P30) Conversion Milestone Update	compliance

CUSTOM ATTRIBUTES

Alternate Identifier(s)	**FMG−EMF/10/4427**
Alternate Name	
Confidentiality Level	**Internal**
ECN Number	
Original ID	
Original Repository	
Revalidation Date	
Status	**ACTIVE**
Product PnL Code(s)	**PNL04; PNL13; PNL1E; PNL1P; PNL1W; PNL42; PNL63; PNL77; PNL81; PNL87; PNLP2**

PRODUCT/PROCESS CHANGE NOTIFICATION

PCN FMG-EMF/10/4427
Notification Date 05/21/2010

Numonyx StrataFlash Embedded Memory (P30) Conversion Milestone Update

Table 1. Change Implementation Schedule

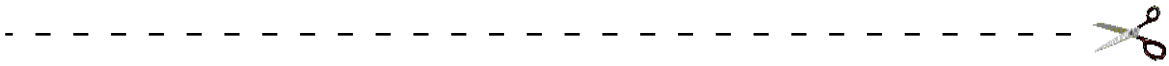
Forecasted implementation date for change	14-May-2010
Forecasted availabillity date of samples for customer	14-May-2010
Forecasted date for **Numonyx** change Qualification Plan results availability	14-May-2010
Estimated date of changed product first shipment	28-May-2010

Table 2. Change Identification

Product Identification (Product Family/Commercial Product)	Numonyx StrataFlash Embedded Memory (P30)
Type of change	Product design change
Reason for change	To improve the overall service to Numonyx customers
Description of the change	This notification is a milestone update to previously issued update FMG-EMF/10/4353 issued March 3, 2010. Cross reference to previously issued ex-Intel PCN 109030-xx first issued December 2008. Refer to attached "PCN Supplemental Reference" for further information. Ex-Intel products sold by Numonyx that are manufactured on 130nm process technology (804) through Intel Fab 14 (IFO) are being discontinued. This site remains part of Intel and is no longer available to manufacture 130nm products for Numonyx. The P30 product family will continue to be offered on internal Numonyx 65nm process technology from Numonyx's Fab 1, providing customers with a conversion option to the product of their choice. This change applies to all densities of the P30 product family. Numonyx Fab 1 (silicon).
Product Line(s) and/or Part Number(s)	See attached
Description of the Qualification Plan	See attached
Change Product Identification	The letter designating the process technology will change from "D" (130nm) to "F" (65nm)
Manufacturing Location(s)	

Table 3. List of Attachments

Customer Part numbers list	
Qualification Plan results	



Customer Acknowledgement of Receipt	**PCN FMG-EMF/10/4427**
Please sign and return to Numonyx Sales Office	**Notification Date 05/21/2010**

☐ Qualification Plan Denied	Name:
☐ Qualification Plan Approved	Title:
	Company:
☐ Change Denied	Date:
☐ Change Approved	Signature:

Remark

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DOCUMENT APPROVAL

Name	Function
Bader, Jeffrey	Division Marketing Manager
Rotz, Steven	Division Product Manager
Uribe, Melissa	Division Q.A. Manager

Product Change Notification Supplemental Reference

Change Title:	**Product Design, Numonyx StrataFlash® Embedded Memory (P30), 130nm to 65nm Migration; Reason for Revision: Milestone updates.**
Numonyx PCN#	**Refer to Numonyx conversion system notification document**
Ex-Intel PCN# (for cross reference)	109030-xx
Date of Publication:	**April 2010**

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

256Mb P30 easyBGA and TSOP

Date of easyBGA Lead-Free 256Mb Samples Availability:	January 30, 2009
Date of easyBGA Leaded and All TSOP 256Mb Samples Availability:	February 28, 2009
Date of First Availability of Post-Conversion Material:	March 31, 2009
Date Customer Must be Ready to Receive Post-Conversion Material:	June 30, 2009
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	June 30, 2009
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	July 1, 2009
Date Numonyx Will Stop Shipping Pre-Conversion Material:	November 30, 2009

256Mb P30 Quad+

Date of 256Mb Quad+ Samples Availability (production material):	July 6, 2009
Date of First Availability of Post-Conversion Material:	July 6, 2009
Date Customer Must be Ready to Receive Post-Conversion Material:	October 31, 2009
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	October 31, 2009
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	November 1, 2009
Date Numonyx Will Stop Shipping Pre-Conversion Material:	April 30, 2010

512Mb (256/256 Stack) QUAD+ P30

Date of Samples Availability (production material):	July 6, 2009
Date of First Availability of Post-Conversion Material:	July 6, 2009
Date Customer Must be Ready to Receive Post-Conversion Material:	October 31, 2009
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	October 31, 2009
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	November 1, 2009
Date Numonyx Will Stop Shipping Pre-Conversion Material:	April 30, 2010

512Mb (256/256 Stack) EasyBGA P30

Date of Samples Availability:	March 15, 2009
Date of First Availability of Post-Conversion Material:	April 30, 2009
Date Customer Must be Ready to Receive Post-Conversion Material:	June 30, 2009

Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	June 30, 2009
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	July 1, 2009
Date Numonyx Will Stop Shipping Pre-Conversion Material:	December 31, 2009

512Mb (256/256 Stack converting to Discrete) TSOP P30

These devices will not support burst or page mode. Refer to section below titled "Note for 256/256Mb TSOP Customers" for further information

Date of Samples Availability:	October 16, 2009
Date of First Availability of Post-Conversion Material:	May 28, 2010
Date Customer Must be Ready to Receive Post-Conversion Material:	May 28, 2010
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	January 31, 2010
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	February 1, 2010
Date Numonyx Will Stop Shipping Pre-Conversion Material:	June 30, 2010

128Mb P30 easyBGA and TSOP

Date of Samples Availability:	May 14, 2010
Date of First Availability of Post-Conversion Material:	May 28, 2010
Date Customer Must be Ready to Receive Post-Conversion Material:	August 31, 2010
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	August 31, 2010
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	September 1, 2010
Date Numonyx Will Stop Shipping Pre-Conversion Material:	February 28, 2011

128Mb P30 QUAD+

Date of Samples Availability:	May 14, 2010
Date of First Availability of Post-Conversion Material:	May 28, 2010
Date Customer Must be Ready to Receive Post-Conversion Material:	August 31, 2010
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	August 31, 2010
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	September 1, 2010
Date Numonyx Will Stop Shipping Pre-Conversion Material:	February 28, 2011

64Mb P30

Date of Samples Availability:	August 6, 2010
Date of First Availability of Post-Conversion Material:	August 13, 2010
Date Customer Must be Ready to Receive Post-Conversion Material:	October 31, 2010
Date Numonyx Will Stop Accepting Orders for Pre-Conversion Material	October 31, 2010
Date Orders for Pre-Conversion Material Become Non-Cancelable and Non-Returnable:	November 1, 2010
Date Numonyx Will Stop Shipping Pre-Conversion Material:	April 30, 2011

Schedule is subject to change. Exact schedules to be provided in future update of this PCN. *The date of "Customer Must be Ready to Receive 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, Numonyx 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:

Numonyx is committed to providing the industry with leading edge memory solutions. As part of this effort, supply of certain mature technology solutions were continued to be provided by the parent companies.

This notification covers the discontinuance of the former Intel 130nm process (P804) from Intel Fab 14 that is now sold through Numonyx. The change applies to all densities of P30 product family.

P30 product family will continue to be offered on internal Numonyx 65nm process out of Numonyx's Fab 1, providing customers with a conversion option to their product of choice.

Customers should be ready to accept and use the 65nm P30 parts by the ready to receive post-conversion material dates listed above for each density. These milestones are also the last dates Numonyx will accept orders for pre-conversion material. Please note that all orders for pre-conversion material become Non-Cancelable and Non-Returnable (NC/NR) after the last order date as noted above in the conversion milestones. Shipment of pre-conversion material to customers will be no later than the last shipment dates listed above for each density. Please note that supply of 130nm pre-conversion material may be limited.

Due to early notification, 65nm availability dates for samples and production are subject to change.

Customer Impact of Change and Recommended Action:

Review available technical documentation and specification differences noted in this notification (Table 1).

Obtain qualification samples, once available, for design checkout.

Consider using engineering samples for first design checkout.

Numonyx has introduced new part numbers and ordering codes for the 65nm lithography products so customers can differentiate the 130nm from the 65nm products.

65nm order codes are available for all densities and are listed in the order code tables below.

Contact your Numonyx representative for migration assistance if necessary.

Product Compatibility:

256Mb and 512Mb densities:

256Mb and 512Mb P30 devices have AC timing differences on 65nm. It is recommended that customers review the AC timing changes as described in this PCN and available technical documentation. This may represent updated information from the customer pre-alert notification of 65nm considerations issued in pre-alert PCNs #107952 in Nov 2007.

Existing Designs: Customers need to review available technical documentation and secure qualification samples as soon as possible based on the published schedules.

Customers can evaluate engineering samples as early vehicles to accelerate system qualification time.

New Designs: Customers working on new designs are advised to take into account the planned changes in AC timing on 65nm.

Product Discontinuance for 256Mb leaded TSOP package: Numonyx has discontinued sales of leaded packages for the 256mb Numonyx™ StrataFlash® Embedded Memory (P30). Please refer to product discontinuance notification **PCN 109668-00** issued 11/02/09 for further information and timelines.

Note for 256/256Mb TSOP customers:
256/256Mb TSOP density is converting to discrete 512Mb density. Samples are available per milestones referenced in this PCN.

Customers can choose from top boot, bottom boot or uniformly blocked versions on 512Mb discrete.

Production updates (April 2010):
TSOP 512Mb P30 will not support burst or page mode. Please refer to latest datasheet (April update) for further information or contact your Numonyx sales representative.

There is no impact to easyBGA package.

Technical documentation is available on
http://www.numonyx.com/en-US/MemoryProducts/NOR/Pages/P30P33Documents.aspx

For any issues or concerns, customers should contact their local Numonyx representative.

128Mb, 64Mb densities:

In case of 64-128Mb densities, 65nm products are planned as form, fit, and function compatible to 130nm versions. Target technical specifications will match existing 130nm datasheets.

Existing Designs: Customers need to be aware of conversion to 65nm and be ready to transition to the new process lithography within 90 days of qualification samples availability. Customers should review technical documentation and secure samples once those become available.

New Designs: Customers working on new designs should be aware of conversion to 65nm and can use existing 130nm samples for evaluation. Customers must be ready to transition to 65nm products once qualification samples are available.

Product Compatibility – Device OTP/Simple OTP parts
Customers using Device OTP and Simple OTP (special security parts) today are advised to consider migrating to standard 65nm parts and implement OTP using password access. See ordering codes below for Device OTP/Simple OTP parts. In case legacy configuration is required for ease of migration, please contact your Numonyx Sales Representative for custom line item set up.

Technical Documentation:

For current technical documentation, please refer to the following links:

130nm Documentation:
Numonyx StrataFlash® Embedded Memory (P30) Family Datasheet:
http://www.numonyx.com/Documents/Datasheets/306666_P30_Discrete_DS.pdf

256Mb and 256/256 65nm Technical Documentation (datasheet and migration guides):

http://www.numonyx.com/en-US/MemoryProducts/NOR/Pages/P30P33Documents.aspx

128Mb and below P30 Documentation:
Preliminary technical documentation is available via your Numonyx sales representative.

Table 1: 256Mb and 512Mb P30 130nm to 65nm Specification Differences

Feature	65nm Specification Differences	Impact/Recommendation
Read Timing	EasyBGA and QUAD+ t_{ACC} goes from 85ns to 100ns	Customers need to evaluate timings to

	256Mb-512Mb TSOP t_{ACC} goes from 95ns to 110ns	determine impact to their designs on a case-by-case basis
Power Up Timing	Power up timing goes from 60µs to 300µs	Customer needs to evaluate system power-up timing on a case by case basis.
Word Program	Word programming changes from 40µs typ/175µs max to 150µs typ/456µs max	Customers should evaluate impact to their designs

Note: 64-128Mb P30 65nm products are expected to be form, fit and function compatible to 130nm versions.

64Mb, 128Mb, 256Mb and 512Mb (256/256Mb) P30: Samples Ordering Information

Contact your Numonyx Sales Representative or Authorized Distributor for assistance with ordering samples.

128Mb P30: Impacted Numonyx Ordering Codes:

Please note the part numbers in the tables below have been updated to reflect the new Numonyx part numbers due to the implementation of the Numonyx Order Management system in November 2009. The ex-Intel pre-conversion part numbers have been retained for historical reference but the MM numbers have been deleted as these are not used in the Numonyx system.

In some cases Numonyx Part Numbers were not created for ex-Intel part numbers if those parts were old samples or production media that is no longer available. These can be identified with “Note A” in the comments field.

For further information on this system conversion please refer to Product Change Notification **PCN 109526-03** "Documentation, Purchasing System, Order Code and Label Change for ex-Intel Products" or contact your Numonyx sales representative.

Pre-Conversion Part Description	Pre-conversion part number (ex-Intel)	Pre-Conversion Numonyx Part Number (130nm)	Post-conversion Numonyx Part Number (65nm)	Comments
128Mb TSOP, Lead-free	JS28F128P30B85873810	JS28F128P30B85A	JS28F128P30BF75A	
	JS28F128P30B85S B93		JS28F128P30BF75A	Note A
	JS28F128P30T85873824	JS28F128P30T85A	JS28F128P30TF75A	
	JS28F128P30T85S B93		JS28F128P30TF75A	Note A
	JS28F128P30B85 S B48	JS28F128P30B85B	JS28F128P30BF75B	
128Mb Easy BGA, Lead-free	PC28F128P30B85873877	PC28F128P30B85A	PC28F128P30BF65A	
	PC28F128P30B85S B93		PC28F128P30BF65A	Note A
	PC28F128P30B85S L9E8		N/A	Custom pre-production part no longer available
	PC28F128P30B85S L9M5		N/A	Custom pre-production part no longer available
	PC28F128P30B85S L9M6	PC28F128P30B85D	Contact your Numonyx ~~Sales Representative for~~ assistance	Convert from ~~Device OTP to~~ standard part and

Pre-Conversion Part Description	Pre-conversion part number (ex-Intel)	Pre-Conversion Numonyx Part Number (130nm)	Post-conversion Numonyx Part Number (65nm)	Comments
				T&R to tray media
	PC28F128P30B85S L9YQ	PC28F128P30B85E	PC28F128P30BF65E	
	PC28F128P30T85873880	PC28F128P30T85A	PC28F128P30TF65A	
	PC28F128P30T85S B48	PC28F128P30T85B	PC28F128P30TF65B	
	PC28F128P30T85S B93		PC28F128P30TF65A	Note A
	PC28F128P30T85S L9E9		N/A	Custom pre-production part no longer available
128Mb Easy BGA, Leaded	RC28F128P30B85873868	RC28F128P30B85A	RC28F128P30BF65A	
	RC28F128P30B85S B93		RC28F128P30BF65A	Note A
	RC28F128P30T85873867	RC28F128P30T85A	RC28F128P30TF65A	
	RC28F128P30T85S B93		RC28F128P30TF65A	Note A
	RC28F128P30T85S L9E6		N/A	Custom pre-production part no longer available
128Mb QUAD+, Lead-free	PF48F3000P0ZBQ0874291	PF48F3000P0ZBQ0A	PF48F3000P0ZBQEA	
	PF48F3000P0ZBQ0S B93		PF48F3000P0ZBQEA	Note A
	PF48F3000P0ZTQ0874294	PF48F3000P0ZTQ0A	PF48F3000P0ZTQEA	
	PF48F3000P0ZTQ0S B93		PF48F3000P0ZTQEA	
128Mb QUAD+, Leaded	RD48F3000P0ZBQ0874381	RD48F3000P0ZBQ0A	RD48F3000P0ZBQEA	
	RD48F3000P0ZTQ0874297	RD48F3000P0ZTQ0A	RD48F3000P0ZTQEA	
	RD48F3000P0ZTQ0S B93		RD48F3000P0ZTQEA	Note A

Note A: ex-Intel part numbers that were old samples and/or production media that is no longer available were not converted to Numonyx commercial part numbers. 65nm post-conversion part number is standard production part in tray media.

256Mb P30: Impacted Numonyx Ordering Codes:

65nm order code update

Please note all 65nm 256Mb P30 products are undergoing a separate product conversion beginning April 2010 (PCN #4398, "256Mb and 256/256Mb 65nm P30 Silicon Metal Layer Change and Assembly Site proliferation"). The 65nm part numbers listed below refer to pre-conversion material (A-1 stepping).

Pre-Conversion Part Description	Ex-Intel Pre-Conversion Part Number (130nm)	Numonyx Pre-Conversion Part Number (130nm)	Numonyx Post-Conversion Part Number (65nm, A-1)	Comments
256Mb TSOP, Lead-free P30	JS28F256P30B95877823	JS28F256P30B95A	JS28F256P30BFA	
	JS28F256P30B95S B48	JS28F256P30B95B	JS28F256P30BFB	
	JS28F256P30B95S B93		JS28F256P30BFA	Note A
	JS28F256P30T95877825	JS28F256P30T95A	JS28F256P30TFA	
	JS28F256P30T95S B48		JS28F256P30TFA	Tape and Reel Media converting to Tray
	JS28F256P30T95S B93		JS28F256P30TFA	Note A
256Mb TSOP, Leaded P30	TE28F256P30B95877816	N/A – EOL [1]	TE28F256P30BFA [1]	Leaded TSOP package has been discontinued. Refer to product discontinuance notification PCN **109668-00** for information and timelines
	TE28F256P30B95S B48	N/A – EOL [1]	TE28F256P30BFA [1]	
	TE28F256P30B95S B93	N/A – EOL [1]	TE28F256P30BFA [1]	
	TE28F256P30T95877807	N/A – EOL [1]	TE28F256P30TFA [1]	

Pre-Conversion Part Description	Ex-Intel Pre-Conversion Part Number (130nm)	Numonyx Pre-Conversion Part Number (130nm)	Numonyx Post-Conversion Part Number (65nm, A-1)	Comments
256Mb Easy BGA, Lead-free P30	PC28F256P30B85873888	PC28F256P30B85A	PC28F256P30BFA	
	PC28F256P30B85S B48	PC28F256P30B85B	PC28F256P30BFB	
	PC28F256P30B85S B93		PC28F256P30BFA	Note A
	PC28F256P30B85S L9C4	PC28F256P30B85D	PC28F256P30BFA	Convert from Device OTP to Standard part (Contact your Sales Representative for assistance)
	PC28F256P30B85S L9E2		PC28F256P30BFA	Convert from Device OTP to Standard part (Contact Sales Representative for assistance)
	PC28F256P30B85S L9E4		PC28F256P30BFA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
	PC28F256P30B85S LA9E	PC28F256P30B85F	PC28F256P30BFA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
	PC28F256P30B85 S LA3Z	PC28F256P30B85E	PC28F256P30BFA	
	PC28F256P30T85873900	PC28F256P30T85A	PC28F256P30TFA	
	PC28F256P30T85S B48	PC28F256P30T85B	PC28F256P30TFA	Tape and Reel Media converting to Tray
	PC28F256P30T85S B93		PC28F256P30TFA	Note A
	PC28F256P30T85S L9E3		PC28F256P30TFA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
	PC28F256P30T85 S LA3Y	PC28F256P30T85D	PC28F256P30TFA	
256Mb Easy BGA, Leaded P30	RC28F256P30B85873883	RC28F256P30B85A	RC28F256P30BFA	
	RC28F256P30B85S B93		RC28F256P30BFA	Note A
	RC28F256P30B85S L8X7	RC28F256P30B85D	RC28F256P30BFA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
	RC28F256P30B85S L9DY		RC28F256P30BFA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
	RC28F256P30T85873882	RC28F256P30T85A	RC28F256P30TFA	
	RC28F256P30T85S B48	RC28F256P30T85B	RC28F256P30TFB	
	RC28F256P30B85 S B48	RC28F256P30B85B	RC28F256P30BFA	Tape and Reel Media converting

Pre-Conversion Part Description	Ex-Intel Pre-Conversion Part Number (130nm)	Numonyx Pre-Conversion Part Number (130nm)	Numonyx Post-Conversion Part Number (65nm, A-1)	Comments
				to Tray
256Mb QUAD+, Lead-free P30	PF48F4000P0ZBQ0874085	PF48F4000P0ZBQ0A	PF48F4000P0ZBQEA	
	PF48F4000P0ZBQ0S B93		PF48F4000P0ZBQEA	Note A
	PF48F4000P0ZTQ0874090	PF48F4000P0ZTQ0A	PF48F4000P0ZTQED	
	PF48F4000P0ZTQ0S B93		PF48F4000P0ZTQED	Note A

1 - Product discontinuance last orders for 256Mb TSOP Leaded P30 are being fulfilled on 65nm due to conversion from 130nm having already been completed in 2009.

Note A: ex-Intel part numbers that were old samples and/or production media that is no longer available were not converted to Numonyx commercial part numbers. 65nm post-conversion part number is standard production part in tray media.

512Mb (256/256Mb) P30 easyBGA and QUAD+: Impacted Numonyx Ordering Codes:

Note: For stacked devices, the same physical device has both top and bottom boot blocks. Post-conversion Numonyx part numbers (65nm) have been consolidated to a "B" boot block parameter designator.

65nm order code update

Please note all 65nm 256Mb P30 products are undergoing a separate product conversion beginning April 2010 (PCN #4398, "256Mb and 256/256Mb 65nm P30 Silicon Metal Layer Change and Assembly Site proliferation"). The 65nm part numbers listed below refer to pre-conversion material (A-1 stepping).

Pre-Conversion Part Description	Pre-conversion part number (ex-Intel)	Pre-Conversion Numonyx Part Number (130nm)	Post-conversion Numonyx Part Number (65nm, A-1)	Comments
512Mb Easy BGA, Lead-free P30	PC48F4400P0VB00874457	PC48F4400P0VB00A	PC48F4400P0VB0EA	
	PC48F4400P0VB00S B48	PC48F4400P0VB00B	PC48F4400P0VB0EA	
	PC48F4400P0VB00S B93	*N/A – no PN created*	PC48F4400P0VB0EA	
	PC48F4400P0VT00874460	PC48F4400P0VT00A	PC48F4400P0VB0EA	
	PC48F4400P0VT00S B93	*N/A – no PN created*	PC48F4400P0VB0EA	
	PC48F4400P0VB00S LABY	PC48F4400P0VB00D	PC48F4400P0VB0EA	Device OTP converting to Standard part (Contact Sales Representative for assistance)
512Mb Easy BGA, Leaded P30	RC48F4400P0VB00874452	RC48F4400P0VB00A	RC48F4400P0VB0EA	
	RC48F4400P0VB00S B93		RC48F4400P0VB0EA	Note A
	RC48F4400P0VT00874454	RC48F4400P0VT00A	RC48F4400P0VB0EA	
512Mb QUAD+, Lead-free P30	PF48F4400P0VBQ0874561	PF48F4400P0VBQ0A	PF48F4400P0VBQEA	
	PF48F4400P0VBQ0S B48		PF48F4400P0VBQEA	T&R by request
	PF48F4400P0VBQ0S B93		PF48F4400P0VBQEA	Note A
	PF48F4400P0VTQ0874563	PF48F4400P0VTQ0A	PF48F4400P0VBQEA	
512Mb QUAD+, Leaded P30	RD48F4400P0VBQ0874461	RD48F4400P0VBQ0A	RD48F4400P0VBQEA	
	RD48F4400P0VTQ0874502	RD48F4400P0VTQ0A	RD48F4400P0VBQEA	

Note A: ex-Intel part numbers that were old samples and/or production media that is no longer available were not converted to Numonyx commercial part numbers. 65nm post-conversion part number is standard production part in tray media.

512Mb (256/256Mb) P30 TSOP: Impacted Numonyx Ordering Codes:

Pre-Conversion Part Description	Pre-conversion part number (ex-Intel)	Pre-Conversion Numonyx Part Number (130nm)	Post-conversion Numonyx Part Number (65nm)	Comments
512Mb TSOP, Lead-free	JS48F4400P0VB00Q GU5	Note A	JS28F512P30TFA	Stacked converting to Monolithic. 65nm devices will not support burst or page mode.
			JS28F512P30BFA	
			JS28F512P30EFA	
	JS48F4400P0VB00S B93	Note A	JS28F512P30TFA	
			JS28F512P30BFA	
			JS28F512P30EFA	
	JS48F4400P0VB00S L9Q3	JS48F4400P0VB00A	JS28F512P30TFA	
			JS28F512P30BFA	
			JS28F512P30EFA	

*****Customer can choose from top boot, bottom boot or uniformly boot configuration for conversion option. Refer to datasheet and migration guide for reference.

Note A: ex-Intel part numbers that were old samples and/or production media that is no longer available were not converted to Numonyx commercial part numbers. 65nm post-conversion part number is standard production part in tray media.

64Mb P30: Impacted Numonyx Ordering Codes:

Pre-Conversion Part Description	Pre-conversion part number (ex-Intel)	Pre-Conversion Numonyx Part Number (130nm)	Post-conversion Numonyx Part Number (65nm)	Comments
64Mb TSOP, Lead-free	JS28F640P30B85873892	JS28F640P30B85A	JS28F640P30BF65A	
	JS28F640P30B85S B93		JS28F640P30BF65A	Note A
	JS28F640P30T85873897	JS28F640P30T85A	JS28F640P30TF65A	
	JS28F640P30T85S B93		JS28F640P30TF65A	Note A
64Mb Easy BGA, Lead-free	PC28F640P30B85873919	PC28F640P30B85A	PC28F640P30BF65A	
	PC28F640P30B85S B48	PC28F640P30B85B	PC28F640P30BF65B	
	PC28F640P30B85S L8XB		PC28F640P30BF65A	Note A
	PC28F640P30B85S L9EA		PC28F640P30BF65A	Note A
	PC28F640P30B85S L9LZ		PC28F640P30BF65A	Note A
	PC28F640P30T85873913	PC28F640P30T85A	PC28F640P30TF65A	
	PC28F640P30T85S B48	PC28F640P30T85B	PC28F640P30TF65B	
	PC28F640P30T85S B93		PC28F640P30TF65A	Note A
	PC28F640P30B85 S LA9D	PC28F640P30B85E	PC28F640P30BF65A	Device OTP converting to Standard part (Contact Sales Representative for assistance)
64Mb Easy BGA, Leaded	RC28F640P30B85873977	RC28F640P30B85A	RC28F640P30BF65A	
	RC28F640P30B85S B48	RC28F640P30B85B	RC28F640P30BF65B	
	RC28F640P30B85S B93		RC28F640P30BF65A	Note A
	RC28F640P30T85873937	RC28F640P30T85A	RC28F640P30TF65A	
	RC28F640P30T85S B93		RC28F640P30TF65A	Note A

Note A: ex-Intel part numbers that were old samples and/or production media that is no longer available were not converted to Numonyx commercial part numbers. 65nm post-conversion part number is standard production part in tray media.

Reference Documents / Attachments:

Document: **Location #:**

PCN Revision History:

Date of Revision:	Revision Number:	Reason:
December 1, 2008	00	Originally Published PCN
February 18, 2009	01	• Added clarification on last date to place orders for pre-conversion material and guideline on last expected shipment date for pre-conversion material • Added 256Mb Samples Ordering information • Added 256Mb post-conversion part number and MM# information • Updated Byte Write specification differences
June 15, 2009	02	• Updated conversion milestones for 128Mb, 64Mb, 32Mb densities. • Addition of Non-Cancel, Non-Return policy to pre-conversion material. • Added 2 customer specific part numbers for 256Mb Easy BGA, Lead-free P30 which are converting to standard parts
August 31, 2009	03	• Updated conversion milestones for 256/256Mb TSOP • Added part numbers for 512Mb TSOP conversion option
November 2, 2009	04	• Updated conversion milestones for 128Mb and 64Mb densities and discrete 512Mb TSOP • Noted the leaded TSOP 256Mb package has been discontinued. Refer to PCN 109668-00 for discontinuance information and timelines.
February 2010	N/A	• Updated conversion milestones for 128Mb and 64Mb densities. • Noted 512Mb P30/P33 TSOP will be put into production with limited specifications. Schedules updated and QS availability clarified. • Updated part numbers to reflect implementation of Numonyx order management system.
April 2010	N/A	• Updated conversion milestones for 128Mb and 64Mb densities. • Update on TSOP 512Mb: 65nm devices will not support burst or page mode. • Addition of 65nm Numonyx Part Numbers for 64Mb densities.

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