



Product Change Notification

105823 - 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 #: 105823 - 00
Change Title: Change to M18 Initial access time, PCN 105823-00, FYI, M18 Initial access time moves to 96ns
Date of Publication: January 17, 2006

Type of Change Notification:
FYI - (For Your Information)

Key Characteristics of the Change:
Documentation

Forecasted Key Milestones:

Date Customer Must be Ready to Receive 96ns Material:	Jan 20, 2006
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Description of Change to the Customer:

To maximize supply, Intel is changing the initial access time to 96ns from 93ns on the M18 product family. The change applies immediately to the entire M18 product family on 90nm ("Sibley" and "Woodmere") and will also apply to the 65nm versions ("Capulet" and Bellaire"). The two standard stacks that have shipped qualification samples are shown below, but this change applies to all future M18 stacks. Effective immediately, the data sheets have been modified to reflect this change.

Customer Impact of Change and Recommended Action:

No action is required, but this change may slightly impact performance of some designs. Asynchronous designs will see a 3ns impact to initial access reads.

Synchronous designs will increase latency count by one for 66 MHz and 133 MHz only. No impact to 40MHz, 54MHz, or 108MHz designs. See table for these changes.

VCCQ = 1.7V to 2.0 V		
Current Latency Count (at Initial Access = 93ns)	New Latency Count (at Initial Access = 96ns)	Frequency Supported (MHz)
4	4	≤ 40 MHz
5	5	≤ 54 MHz
6	7	≤ 66 MHz
10	10	≤ 108 MHz
12	13	≤ 133 MHz

Products Affected / Intel Ordering Codes:

Component Product Table

Affected Product Code	Affected Spec/ROM	Affected MM#
PF38F5060M0Y0B0875164		875164
PF38F5060M0Y0B0Q EE9	Q EE9	871876
PF38F5060M0Y0B0Q EF0	Q EF0	871882
PF38F5060M0Y0B0Q EG3	Q EG3	872005
PF38F5060M0Y0B0Q EG4	Q EG4	872007
PF38F5060M0Y0B0Q EG5	Q EG5	872008
PF38F5060M0Y0B0Q ER3	Q ER3	873069
PF38F5060M0Y0B0Q ER4	Q ER4	873076
PF38F5060M0Y0B0Q ER5	Q ER5	873077
PF38F5060M0Y0B0Q FV0	Q FV0	875151
PF38F5060M0Y0B0Q FV1	Q FV1	875152
PF38F5060M0Y0B0Q FV2	Q FV2	875153
PF38F5060M0Y0B0S B48	S B48	872013
PF38F5060M0Y0B0S B93	S B93	872009
PF38F5060M0Y0C0874324		874324
PF38F5060M0Y0C0Q EP2	Q EP2	872844
PF38F5060M0Y0C0Q EP3	Q EP3	872845
PF38F5060M0Y0C0Q EQ4	Q EQ4	872866
PF38F5060M0Y0C0Q FE6	Q FE6	874284
PF38F5060M0Y0C0Q FE7	Q FE7	874285
PF38F5060M0Y0C0Q FE8	Q FE8	874286
PF38F5060M0Y0C0Q FS5	Q FS5	874974
PF38F5060M0Y0C0Q FS6	Q FS6	874977
PF38F5060M0Y0C0Q FS7	Q FS7	874978
PF38F5060M0Y0C0S B48	S B48	874319
PF38F5060M0Y0C0S B93	S B93	874287
PF38F5060M0Y1C0Q FY6	Q FY6	875895

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

January 16, 2006

Revision Number:

00

Reason:

Originally Published PCN