



Final Product Change Notification

201612011F01

Issue Date: 21-Dec-2016

Effective Date: 04-Apr-2017

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QUALITY

Management Summary

Phase 4: Expansion of industrial footprint for C350/C500 process (74HC/T Logic products) in ASMC as second source wafer fab

Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input checked="" type="checkbox"/> Product Marking	<input type="checkbox"/> Test Location	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Process	<input type="checkbox"/> Errata
<input checked="" type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Equipment	<input type="checkbox"/> Electrical spec./Test coverage

Phase 4: Expansion of industrial footprint for C350/C500 process 74HC/T (ASMC, China)

Details of this Change

Phase 4: Expansion of industrial footprint for C350/C500 process in ASMC (Advanced Semiconductor Manufacturing Corporation Limited in Shanghai China)

Introduce additional Logic types; 74HC/T family at ASMC (Advanced Semiconductor Manufacturing Corporation Limited in Shanghai China) in C350/C500 as second source wafer fab location for current location NXP ICN8 fab (Nijmegen The Netherlands)

- No change in datasheet, form, fit, function, quality or reliability anticipated
- No change in BOM (Bill Of Materials)
- Matching PCM and product parameters by 1.5 delta/sigma
- No change in die layout, all masks are produced from the same GDS2 file
- No change in ordering code 12NC's and product type number
- No change in final test location

Why do we Implement this Change

- Capacity increase to address customer demand
- Reduce risk of supply by releasing in geographically dispersed production locations
- Flexibility
- Order Lead-Time Improvement

Identification of Affected Products

- Applied wafer fab is indicated on the reel and box label or on the product marking if space permits

Fab Indicators:

"Y"= ASMC, Shanghai, China

"T"= NXP ICN8, Nijmegen, Netherlands

Product Availability

Sample Information

Samples are available from 20-Dec-2016

For high volume types samples are available upon request

Samples request for limited quantities can be made via sample store Nijmegen The Netherlands (email: logic.helpdesk@nxp.com)

Production

Planned first shipment 21-Mar-2017

Impact

No change in datasheet, form, fit, function, quality or reliability anticipated

Data Sheet Revision

No impact to existing datasheet

Disposition of Old Products

Not applicable, products will continue to be diffused in ICN8 and will continue to ship as needed to meet customer demand

Related Notifications

Notification	Issue Date	Effective Date	Title
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201410001F0101	Nov-2014	13-Feb-2015	Introduce ASMC as a second source wafer fab location for 74AUP Logic products
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201503008F0126	Mar-2015	22-Jul-2015	Phase 2: Expansion of industrial footprint for C075 process 74AVC/AUP Logic products
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201505005F0112	Sep-2015	25-Dec-2015	Phase 3: Expansion of industrial footprint for C075/C125 process 74LVC/AVC/AUP (ASMC)
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Timing and Logistics

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 20-Jan-2017.

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

Name Emile Busink

Position PCN specialist - QA engineering Logic Products

e-mail address logic.helpdesk@nxp.com

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Customer Focus, Passion to Win.

NXP Quality Management Team.

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Affected Part Numbers

74HCT165D,652	74HCT4051DB,118	74HCT4053PW,118
74HCT165D,652	74HC245PW,112	74HC4053BQ,115
74HCT165D,653	74HC245PW,118	74HC595BQ,115
74HCT165D,653	74HCT151PW,112	74HC595BQ,115
74HCT4051D,112	74HCT594DB,118	74HCT123D,653
74HCT4051D,112	74HC4067BQ,118	74HCT123D,653
74HCT4051D,118	74HCT4067BQ,118	74HCT14D,652
74HC4052DB,112	74HCT245D,652	74HCT14D,652
74HC4053PW,112	74HCT245D,652	74HCT594D,118
74HC4053PW,118	74HC165D,652	74HC4067DB,112
74HC4053PW,118	74HC14D,652	74HC4067DB,118
74HCT165DB,112	74HC14D,652	74HC4066BQ,115
74HCT4067PW,118	74HC14D,652	74HCT573D,652
74HCT595PW,112	74HC259D,653	74HCT573D,652
74HCT595PW,118	74HC4094D,652	74HCT4094D,112
74HCT595PW,118	74HC4094D,652	74HCT4094D,118
74HCT138D,652	74HC4094D,653	74HC595DB,112
74HCT138D,652	74HC4094D,653	74HC595DB,118
74HC123D,652	74HC4094D,653	74HC14PW,118
74HCT595D,112	74HCT4046AD,112	74HC14PW,118
74HCT4066PW,112	74HC595D,112	74HCT138PW,118
74HCT138D,653	74HC595D,112	74HC4094PW,118
74HCT138D,653	74HC4051DB,112	74HC4052BQ,115
74HCT138D,653	74HC4051DB,118	74HC4052BQ,115
74HC123D,653	74HC4051DB,118	74HC4051BQ,115
74HC123D,653	74HC138PW,118	74HCT573D,653
74HC123D,653	74HC151PW,118	74HCT573D,653
74HC4066D,652	74HC4067PW,112	74HCT573D,653
74HC4066D,652	74HC165BQ,115	74HCT14D,653

Affected Part Numbers

74HCT4052D,112	74HCT165BQ,115	74HCT14D,653
74HCT595D,118	74HC259BQ,115	74HCT14D,653
74HC259PW,118	74HCT4052PW,118	74HCT14D,653
74HC4066PW,112	74HCT245D,653	74HC4053D,652
74HCT4066PW,118	74HCT245D,653	74HC4067D,652
74HC4094DB,118	74HCT245D,653	74HC4067D,653
74HCT4051PW,112	74HC165D,653	74HCT245PW,112
74HCT4051PW,118	74HC165D,653	74HCT245PW,118
74HC4066D,653	74HC165D,653	74HC164PW,118
74HC4066D,653	74HC14D,653	74HC595PW,112
74HC4066D,653	74HC14D,653	74HC595PW,112
74HC4052D,652	74HC14D,653	74HC573BQ,115
74HC4052D,653	74HC14D,653	74HCT4066BQ,115
74HCT4052D,118	74HC14D,653	74HC245D,652
74HC4066PW,118	74HC595D,118	74HC245D,652
74HC4066PW,118	74HC595D,118	74HC151D,653
74HCT573PW,112	74HCT123PW,112	74HC151D,653
74HCT573PW,118	74HCT123PW,118	74HC164D,653
74HCT164PW,118	74HC4067PW,118	74HC4053D,653
74HC573D,652	74HC151DB,112	74HC4053D,653
74HC573D,653	74HCT4052DB,118	74HCT4067D,112
74HCT4053D,112	74HC164BQ,115	74HC595PW,118
74HC594D,112	74HC138D,652	74HC595PW,118
74HC594D,118	74HC138D,652	74HCT573BQ,115
74HC573PW,112	74HC4051D,652	74HCT595BQ,115
74HCT165PW,118	74HC4051D,652	74HCT4066D,112
74HCT259PW,112	74HCT259D,652	74HCT4066D,118
74HC14BQ,115	74HC138DB,118	74HC4046AD,652
74HCT14BQ,115	74HC14DB,112	74HC4046AD,652
74HCT123D,652	74HC14DB,118	74HC4046AD,653
74HCT4053D,118	74HCT14DB,112	74HC4046AD,653
74HCT594D,112	74HC123PW,112	74HCT245DB,118
74HCT594D,118	74HC123PW,118	74HC245DB,118
74HC573DB,112	74HC4052PW,112	74HCT14PW,112
74HC573PW,118	74HC4052PW,118	74HCT14PW,118
74HCT4053PW,118	74HCT4094DB,112	74HC4046APW,118
74HC4053BQ,115	74HC138D,653	74HC4051PW,112
74HC595BQ,115	74HC138D,653	74HC4051PW,112
74HC595BQ,115	74HC151D,652	74HCT4051BQ,115
74HCT123D,653	74HC151D,653	74HC245BQ,115
		74HCT164BQ,115

Affected Part Numbers

74HCT123D,653	74HC151D,653	74HC245D,653
74HCT14D,652	74HC4051D,653	74HC245D,653
74HCT14D,652	74HC4051D,653	74HC245D,653
74HC4067DB,112	74HCT259D,653	74HCT151D,652
74HC4067DB,118	74HC165PW,112	74HCT164D,653
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74HC14PW,118	74HC594DB,112	74HC245PW,112
74HC14PW,118	74HCT595DB,112	74HC4051PW,118
74HC4094PW,118	74HC123DB,112	74HC4051PW,118
74HC4066BQ,115	74HC138D,653	74HC4051PW,118
74HC4052BQ,115	74HC138D,653	74HCT151PW,112
74HC4052BQ,115	74HCT165D,652	74HCT594DB,118
74HCT573D,652	74HCT165D,652	74HC4067BQ,118
74HCT573D,652	74HC4051D,653	74HC165D,652
74HC164D,652	74HC4051D,653	74HC14D,652
74HCT14D,653	74HCT4051D,112	74HC14D,652
74HCT14D,653	74HCT4051D,112	74HC14D,652
74HCT14D,653	74HC165PW,118	74HC259D,653
74HCT14D,653	74HC4052DB,112	74HC4094D,652
74HC4053D,652	74HC4053PW,112	74HC4094D,652
74HCT4094D,112	74HCT165DB,112	74HCT4046AD,112
74HCT4094D,118	74HCT4067PW,118	74HC4051DB,112
74HC595DB,112	74HCT595PW,112	74HC4051DB,118
74HC595DB,118	74HCT165D,653	74HC4051DB,118
74HCT245PW,112	74HCT165D,653	74HC245PW,118
74HCT138PW,118	74HCT4051D,118	74HC4067PW,112
74HC4051BQ,115	74HCT595D,112	74HC165BQ,115
74HCT573D,653	74HC4053PW,118	74HCT165BQ,115
74HCT573D,653	74HC4053PW,118	74HC259BQ,115
74HCT573D,653	74HCT4066PW,112	74HCT4052PW,118
74HC164D,653	74HCT595PW,118	74HCT245D,652
74HC4053D,653	74HCT595PW,118	74HCT245D,652
74HC4053D,653	74HCT138D,652	74HC165D,653
74HC4067D,652	74HCT138D,652	74HC165D,653
74HC4067D,653	74HC123D,652	74HC165D,653
74HCT245PW,118	74HC4066D,652	74HC4094D,653
74HC164PW,118	74HC4066D,652	74HC4094D,653
74HC595PW,112	74HCT595D,118	74HC4094D,653
74HC595PW,112	74HC259PW,118	74HC595D,112
74HC595PW,118	74HC4066PW,112	74HC595D,112
74HC595PW,118	74HCT4066PW,118	74HC138PW,118
74HC573BQ,115	74HC4094DB,118	74HC4067PW,118

Affected Part Numbers

74HCT4066BQ,115	74HCT4051PW,118	74HCT4052DB,118
74HC245D,652	74HCT138D,653	74HC164BQ,115
74HC245D,652	74HCT138D,653	74HC138D,652
74HCT4067D,112	74HCT138D,653	74HC138D,652
74HC4053DB,118	74HC123D,653	74HCT245D,653
74HC4046APW,118	74HC123D,653	74HCT245D,653
74HCT573BQ,115	74HC123D,653	74HCT245D,653
74HCT595BQ,115	74HC4052D,652	74HC4051D,652
74HC138BQ,115	74HCT4052D,112	74HC4051D,652
74HC245D,653	74HCT4052D,118	74HCT259D,652
74HC245D,653	74HCT573PW,112	74HC595D,118
74HC245D,653	74HCT164PW,118	74HC595D,118
74HCT151D,652	74HC573D,652	74HC595D,118
74HCT4066D,112	74HC4066D,653	74HC138DB,118
74HCT4066D,118	74HC4066D,653	74HCT14DB,112
74HC4046AD,652	74HC4066D,653	74HCT123PW,118
74HC4046AD,652	74HCT4053D,112	74HC123PW,112
74HC4046AD,653	74HC594D,112	74HCT4094DB,112
74HC4046AD,653	74HC594D,118	74HC151D,652
74HCT245DB,118	74HC4066PW,118	74HC14D,653
74HC245DB,118	74HC4066PW,118	74HC14D,653
74HCT14PW,112	74HCT573PW,118	74HC14D,653
74HCT14PW,118	74HC573PW,112	74HC14D,653
74HC4051PW,112	74HCT165PW,118	74HC14D,653
74HC4051PW,112	74HCT259PW,112	74HCT259D,653
74HC4051PW,118	74HC14BQ,115	74HC165PW,112
74HC4051PW,118	74HCT14BQ,115	74HC123PW,118
74HC4051PW,118	74HC573D,653	74HC4052PW,118
74HCT4051BQ,115	74HC4052D,653	74HC594DB,112
74HC245BQ,115	74HC4052D,653	74HCT595DB,112
74HCT164BQ,115	74HCT4053D,118	74HC123DB,112
74HCT164D,652	74HCT594D,112	
74HCT164D,653	74HC573DB,112	
74HC259D,652	74HC573PW,118	