



## Final Product Change Notification

202303019F01 : MC56F8345/8335/8145/8135 and MC56F832x/812x Fab Site Expansion from TSMC3 to NXP-CHD

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Jul 26, 2023 **Effective date:** Oct 24, 2023

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For detailed information we invite you to view this notification online

### Management summary

Wafer Fabrication site expansion for the MC56F8345/8335/8145/8135 and MC56F832x/812x from the current Taiwan Semiconductor Manufacturing Company Fab 3(TSMC3), Taiwan Wafer Fabrication site to the NXP CHD Fab Chandler, Arizona Wafer Fabrication site.

### Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Process	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input type="checkbox"/> Assembly Materials	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Equipment	<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 Location	<input type="checkbox"/> Electrical spec./Test coverage
<input type="checkbox"/> Firmware <input type="checkbox"/> Other				

## PCN Overview

### Description

NXP Semiconductors announces the Wafer Fabrication site expansion for the MC56F8345/8335/8145/8135 and MC56F832x/812x associated with this notification, from the current Taiwan Semiconductor Manufacturing Company Fab 3(TSMC3), Taiwan Wafer Fabrication site to the NXP CHD Fab Chandler, Arizona Wafer Fabrication site.

Wafer Fabrication site expansion was successfully qualified adhering to NXP specifications.

Please see the attached file(s) for additional details.

### Reason

Qualification of NXP CHD Fab Chandler, Arizona is required for manufacturing flexibility and customer supply assurance.

### Identification of Affected Products

Top Side Marking

The mask marking for CHD will reflect 0P42G for MC56F8345/8335/8145/8135 and 0P48G for MC56F832x/812x, while the mask marking for TSMC3 will remain 1L56V for MC56F8345/8335/8145/8135 and 2L97V for MC56F832x/812x.

## Product Availability

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### Sample Information

Samples are available upon request  
PC56F8345MFGE, PC56F8323MFBE

### Production

Planned first shipment Oct 25, 2023

## Anticipated Impact on Form, Fit, Function, Reliability or Quality

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No Impact on form, fit, function, reliability or quality

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

Fab Expansion. No Depletion of Inventory required.

## Additional information

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Self qualification: [view online](#)

Additional documents: [view online](#)

## Timing and Logistics

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In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Aug 25, 2023.

## Contact and Support

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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:

<b>Name</b>	Lei Yang
<b>Position</b>	Product Engineer
<b>e-mail address</b>	lei.yang@nxp.com

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NXP Quality Management Team.

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NXP Semiconductors  
High Tech Campus, 5656 AG Eindhoven, The Netherlands

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Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
MC56F8345MFGE	935316573557	MC56F8345MFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8345VFGE	935325161557	MC56F8345VFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8145VFGE	935309356557	MC56F8145VFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8335VFGERR	935318991518	MC56F8335VFGERR	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8335VFGE	935318991557	MC56F8335VFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8335MFGE	935323954557	MC56F8335MFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8135VFGE	935316557557	MC56F8135VFGE	16 BIT HYBRID CONTROLLER	(L)QFP128	SOT425-2	RFS	No	BLM1
MC56F8123VFBE	935313443557	MC56F8123VFBE	16 BIT HYBRID CONTROLLER	(L)QFP64	SOT1699-1	RFS	No	BLM1
MC56F8122VFAE	935320975557	MC56F8122VFAE	16 BIT HYBRID CONTROLLER	(L)QFP48	SOT313-3	RFS	No	BLM1
MC56F8323VFBERR	935309359528	MC56F8323VFBERR	16 BIT HYBRID CONTROLLER	(L)QFP64	SOT1699-1	RFS	No	BLM1
MC56F8323VFBE	935309359557	MC56F8323VFBE	16 BIT HYBRID CONTROLLER	(L)QFP64	SOT1699-1	RFS	No	BLM1
MC56F8322MFAE	935313445557	MC56F8322MFAE	16 BIT HYBRID CONTROLLER	(L)QFP48	SOT313-3	RFS	No	BLM1
MC56F8323MFBE	935313457557	MC56F8323MFBE	16 BIT HYBRID CONTROLLER	(L)QFP64	SOT1699-1	RFS	No	BLM1
MC56F8322VFAER2	935316577528	MC56F8322VFAER2	16 BIT HYBRID CONTROLLER	(L)QFP48	SOT313-3	RFS	No	BLM1
MC56F8322VFAE	935316577557	MC56F8322VFAE	16 BIT HYBRID CONTROLLER	(L)QFP48	SOT313-3	RFS	No	BLM1