



## Final Product Change Notification

202202023F01 : For LPC18x0 and LPC43x0, TSMC Will be Added as a Second Source Wafer Fab

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

**Issue Date:** Feb 24, 2022 **Effective date:** May 25, 2022

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For detailed information we invite you to [view this notification online](#)

### Management summary

For LPC18x0 and LPC43x0 (Flashless), TSMC will be added as a second source wafer fab.

### 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

For LPC18x0 and LPC43x0 products, The current wafer fab is UMC. TSMC has been qualified and will be added as a second source wafer fab.

- No change in data sheet
- No change in ordering part number / 12NC
- Final test location remains unchanged at NXP Assembly and Test Kaohsiung (ATKH)

### Reason

To ensure wafer supply with increased capacity.

### Identification of Affected Products

Top Side Marking

The wafer fab can be identified on the top side marking. The first character of the 3rd line in the top side marking is the fab code. E = TSMC, 9 = UMC

### Product Availability

### Sample Information

Samples are available upon request

### Production

Planned first shipment May 19, 2022

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

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

### Data Sheet Revision

No impact to existing datasheet

### Disposition of Old Products

After the PCN effective date, customers may receive product from either wafer fab.

### Additional information

Self qualification: [view online](#)

Additional documents: [view online](#)

### Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Mar 26, 2022.

### 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** Tim Camenzind  
**Position** Quality Manager  
**e-mail address** [tim.camenzind@nxp.com](mailto:tim.camenzind@nxp.com)

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High Tech Campus, 5656 AG Eindhoven, The Netherlands

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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	New Orderable Part#	12NC New	Product Type New	Product Description New	Product Line	Notes
LPC1820FET100,551	935293676551	LPC1820FET100	32-bit ARM M3	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC1810FET100,551	935293677551	LPC1810FET100	32-bit ARM M3	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC1830FET256,551	935293684551	LPC1830FET256	32-bit ARM M3	(L)BGA256M	SOT740-2	RFS	No					BLM1	
LPC1830FET256K	935293684557	LPC1830FET256	32-bit ARM M3	(L)BGA256M	SOT740-2	RFS	No					BLM1	
LPC1850FET256,551	935293685551	LPC1850FET256	32-bit ARM M3	(L)BGA256M	SOT740-2	RFS	No					BLM1	
LPC18550FET256,551	935296282551	LPC18550FET256	32-bit ARM M3	(L)BGA256M	SOT740-2	RFS	No					BLM1	
LPC1830FET180,551	935296288551	LPC1830FET180	32-bit ARM M3	(T)FBGA180M	SOT570-3	RFS	No					BLM1	
LPC1850FET180,551	935296289551	LPC1850FET180	32-bit ARM M3	(T)FBGA180M	SOT570-3	RFS	No					BLM1	
LPC1830FBD144,551	935296302551	LPC1830FBD144	32-bit ARM M3	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC1820FBD144,551	935296303551	LPC1820FBD144	32-bit ARM M3	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC1820FBD144K	935296303557	LPC1820FBD144	32-bit ARM M3	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC1830FET100Y	935296365518	LPC1830FET100	32-bit ARM M3	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC1830FET100,551	935296365551	LPC1830FET100	32-bit ARM M3	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC1810FBD144,551	935296953551	LPC1810FBD144	32-bit ARM M3	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC18510FBD144E	935304121551	LPC18510FBD144	32-bit ARM M3	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC18530FET256E	935304176551	LPC18530FET256	32-bit ARM M3	(L)BGA256M	SOT740-2	RFS	No					BLM1	
LPC18510FET100E	935304177551	LPC18510FET100	32-bit ARM M3	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC18510FET180E	935305894551	LPC18510FET180	32-bit ARM M4	(T)FBGA180M	SOT570-3	RFS	No					BLM1	
LPC18530FBD144E	935305902551	LPC18530FBD144	32-bit ARM M4	(L)QFP144	SOT486-1	RFS	No					BLM1	
LPC18530FET100E	935305907551	LPC18530FET100	32-bit ARM M4	(T)FBGA100M	SOT926-1	RFS	No					BLM1	
LPC18550FET180E	935305909551	LPC18550FET180	32-bit ARM M4	(T)FBGA180M	SOT570-3	RFS	No					BLM1	

