

Advance Product Change Notification

202112006A : New Wafer Source for SmartMX3 P71 and SE05x Products

Note: This notice is NXP Company Proprietary.

Issue Date: Mar 15, 2022

Here is your personalized notification about a NXP general announcement. For detailed information we invite you to view this notification online

Management summary

NXP is making an additional wafer foundry available for the CMOS040 technology used to manufacture wafers for P71 and SE05x products. For orders after the change, NXP planners can source material from one of two possible foundries. The commercial type naming scheme is adapted to make this dual-sourcing possible without changes to existing customer ordering type names or 12NCs (ordering codes).

Change Category

[]Wafer Fab Process

[]Wafer Fab Materials

[X]Wafer Fab Location

[]Firmware

[]Assembly Materials []Assembly Location []Other

[]Assembly Process

- []Product Marking []Mechanical Specification [X]Packing/Shipping/Labeling
- []Test Equipment []Test Location
- []Test Process []Design []Errata
 - []Electrical spec./Test coverage

PCN Overview Description

Besides the existing source for wafers, a second source will become available after the change. This is Globalfoundries fab 1 in Dresden, Germany (GF1). This foundry will produce products with the same form, fit and function as the existing source (Globalfoundries fab 7 in Singapore, GF7). GF1 has the same quality and security certifications like GF7. NXP is performing an extensive qualification process to ensure wafer supplies are equivalent from both sources in all observable aspects.

To help our customers execute future orders in a more flexible way, the type naming scheme for affected parts is changing. There is a change in the coding for the letter that identifies wafer source. The letter "z", which previously had the meaning "wafer source GF7" will have the meaning "wafer source GF1 or GF7" after the change. Individual customer orders will typically be fulfilled only from one single source each, not from a mixture of both sources. Due to differences in the top oxide layers, wafers from GF1 overall may have a different overall color appearance than wafers from GF1, especially in the saw lanes. Furthermore, the laser marking of the batch number on the wafer has a different visual appearance. These differences are specified in an updated wafer specification document, available from NXP DocStore.

Reason

NXP strives to provide larger flexibility to customers and our production fulfilment. Being able to source wafers for SmartMX3 P71 and for EdgeLock SE05x products from more than one source will provide a more resilient supply situation. In the light of the global semiconductor supply broadly discussed in public media, we believe this change will be helpful.

Identification of Affected Products

Packing Labels

Shipping labels for wafer material always includes a statement of the country of origin (COO). COO for the previously existing GF7 location is Singapore, while COO for the new location GF1 is Germany. Furthermore, for products delivered to customers in wafer form factor, the wafer lot numbers have a recognizably different format between materials sourced from GF7 and from GF1.

Product Availability

Sample Information Samples are available from May 31, 2022 Anticipated Impact on Form, Fit, Function, Reliability or Quality

No Impact on form, fit, function, reliability or quality **Data Sheet Revision**

A new datasheet will be issued **Disposition of Old Products** "old products" does not apply, as GF7 will still remain a valid wafer production source also after the change. **Additional information**

Self qualification: view online Timing and Logistics

The Self Qualification Report will be ready on May 31, 2022. The Final PCN is planned to be issued on: May 31, 2022. In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Apr 14, 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	Mario Stoltz
Position	Product Manager
e-mail address	mario.stoltz@nxp.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards. Customer Focus, Passion to Win.

NXP Quality Management Team.

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ: NXPI) provides High Performance Mixed Signal and Standard Product solutions that leverage its leading RF, Analog, Power Management, Interface, Security and Digital Processing expertise. These innovations are used in a wide range of automotive, identification, wireless infrastructure, lighting, industrial, mobile, consumer and computing applications. You have received this email because you are a designated contact or subscribed to NXP Quality Notifications. NXP shall not be held liable if this Notification is not correctly distributed within your organization. This message has been automatically distributed. Please do not reply.

NXP Semiconductors

High Tech Campus, 5656 AG Eindhoven, The Netherlands

Product Type Changed Orderable Part# 12NC Product Description Package Description Product Status **Customer Specific Indicator** 12NC New Package Outline New Orderable Part# Prod RFS A5000R2HQ1/Z016UZ 935426225472 A5000R2HQ1/Z016U A50 Authenticator H(X2)QFN20 SOT1969-1 No SE051W2HQ1/Z01J4Z 935429788472 SE051W2HQ1/Z01J4 SE051W IoT Secure Element H(X2)QFN20 SOT1969-1 ASM No SE051W2HQ1/Z013YZ 935420897472 SE051W2HQ1/Z013Y SE051W IoT Secure Element H(X2)QFN20 SOT1969-1 DEV No 935420896472 SE051H1HQ1/Z013X DEV SE051H1HQ1/Z013XZ SE050/SE051 IoT Secure Element H(X2)QFN20 SOT1969-1 No SE051C2HQ1/Z01XSZ 935416619472 SE051C2HQ1/Z01XS SE050/SE051 IoT Secure Element H(X2)QFN20 SOT1969-1 RFS No SE051P2HQ1/Z011AZ 935409596472 SE051P2HQ1/Z011A SE050/SE051 IoT Secure Element H(X2)QFN20 SOT1969-1 RFS No SE051A2HQ1/Z01XEZ 935414458472 SE051A2HQ1/Z01XE SOT1969-1 RFS SE050/SE051 IoT Secure Element H(X2)QFN20 No SE051S2HQ1/Z01XEZ 935436034472 SE051S2HQ1/Z01XE SE050/SE051 IoT Secure Element H(X2)QFN20 SOT1969-1 CQS No SE051C2HQ1/Z01XDZ 935414457472 SE051C2HQ1/Z01XD SE050/SE051 IoT Secure Element H(X2)QFN20 SOT1969-1 RFS No SE050D2HQ1/Z01PAZ 935402369472 SE050D2HQ1/Z01PA SE050 IoT Secure Element H(X2)QFN20 SOT1969-1 RFS No

© 2006- 2022 NXP Semiconductors. All rights reserved.

duct Type New	Product Description New	Product Line	Notes
		BLT1	

SE050C1HQ1/Z01SCZ	935386987472	SE050C1HQ1/Z01SC	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050B2HQ1/Z01SFZ	935386986472	SE050B2HQ1/Z01SF	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050C2HQ1/Z01SDZ	935386988472	SE050C2HQ1/Z01SD	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050A2HQ1/Z01SHZ	935386984472	SE050A2HQ1/Z01SH	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050E2HQ1/Z01Z3Z	935434382472	SE050E2HQ1/Z01Z3	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050F2HQ1/Z018HZ	935428444472	SE050F2HQ1/Z018H	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050B1HQ1/Z01SEZ	935386985472	SE050B1HQ1/Z01SE	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
SE050A1HQ1/Z01SGZ	935386722472	SE050A1HQ1/Z01SG	SE050 IoT Secure Element	H(X2)QFN20	SOT1969-1	RFS	No		BLT1
MF3P82C0A6/0ZA52EJ	935411875118	MF3P82C0A6/0ZA52E	MIFARE DESFire Pay EV2	CLM2M	SOT500-3	CQS	No		BLT1
MF3P82C0A6/0ZA598J	935416227118	MF3P82C0A6/0ZA598	MIFARE DESFire Pay EV2	CLM2M	SOT500-3	RFS	No		BLT1