

PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.		ADG/20/12172
1.3 Title of PCN		SPC560xxx (FB50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)
1.4 Product Category		see list
1.5 Issue date		2020-05-25

2. PCN Team

2.1 Contact supplier	
2.1.1 Name	ROBERTSON HEATHER
2.1.2 Phone	+1 8475853058
2.1.3 Email	heather.robertson@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Luca RODESCHINI
2.1.2 Marketing Manager	Selica RUSSI
2.1.3 Quality Manager	Alberto MERVIC

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Transfer	Line transfer for a full process or process brick (process step, control plan, recipes) from one site to another site: Wafer fabrication	TSMC Subcontractor recipient (Taiwan)

4. Description of change

	Old	New
4.1 Description	ST Crolles (France) Diffusion plant	ST Crolles (France) Diffusion plant TSMC (Taiwan) Additional Diffusion Plant
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Dual sourcing strategy. Following PCI ADG/19/11411 dated March 2019
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	Dedicated Finished Good Codes
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7. Timing / schedule

7.1 Date of qualification results	2020-05-19
7.2 Intended start of delivery	2020-10-01
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	12172 Validation.zip		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2020-05-25

9. Attachments (additional documentations)

12172 Public product.pdf
12172 Validation.zip
12172 Details.pdf

10. Affected parts

10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	SPC560B40L3C6E0X	
	SPC560B40L5C6E0X	
	SPC560B50L3B4E0X	
	SPC560B50L3C6E0X	
	SPC560B50L3C6E0Y	
	SPC560B50L5C6E0X	
	SPC560B50L5C6E0Y	
	SPC560C50L3B4E0X	
	SPC560C50L3C6E0X	

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PRODUCT/PROCESS CHANGE NOTIFICATION

SUBJECT	SPC560xxx (FB50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)	
IMPACTED PRODUCTS	ST silicon line FB50 assembled in different packages:	
	PACKAGE DESCRIPTION	COMMERCIAL PRODUCT
	LQFP 100 14x14x1.4	SPC560B40L3B3E0X SPC560B40L3B3EDX SPC560B40L3B4E0X SPC560B40L3B4EDX SPC560B40L3B6E0X SPC560B40L3B6E0Y SPC560B40L3C4E0X SPC560B40L3C6E0X SPC560B44L3B4EVX SPC560B50L3B4E0X SPC560B50L3B4E0Y SPC560B50L3B6E0X SPC560B50L3C4E0X SPC560B50L3C6E0X SPC560B50L3C6E0Y SPC560C40L3C6E0X SPC560C50L3B4E0X SPC560C50L3C6E0X SPC560C50L3C6E0Y SPC560B40L5B4ET SPC560B40L5B6E0Y SPC560B40L5C6E0X SPC560B44L5B4EVX SPC560B50L5B6E0X SPC560B50L5C6E0X SPC560B50L5C6E0Y
	LQFP 144 20X20X1.4	
MANUFACT. STEP	Silicon Diffusion (Front End).	

INVOLVED PLANT	TSMC (recipient Plant – ST Subcontractor) Fab14A 300mm located in Tainan (Taiwan) - Automotive qualified and certified IATF16949.																																																																																																																																																																																																																																																																																																																																																																																					
CHANGE REASON	Expansion of current silicon diffusion capacity (volumes increase) and flexible/secure production asset – dual sourcing strategy.																																																																																																																																																																																																																																																																																																																																																																																					
CHANGE DESCRIPTION	Activation of TSMC Fab14A as additional or alternative source for CMOS-M10 technology microcontrollers, following related product qualification according to automotive standards (AEC-Q100 – Q006).																																																																																																																																																																																																																																																																																																																																																																																					
TRACEABIL.	New dedicated Finished Good code (Internal Part Number).																																																																																																																																																																																																																																																																																																																																																																																					
VALIDATION	<p>According to AEC-Q100 qualification plan for Integrated Circuits and ZVEI Guideline (change description: SEM-PW-13 Move of all or part of wafer fab to a different location/site/subcontractor):</p> <table border="1" data-bbox="442 1136 1372 1628"> <thead> <tr> <th data-bbox="442 1136 502 1501">Line evaluation (can be evaluated by data or audit on site check)</th><th colspan="16" data-bbox="502 1136 1372 1501">AEC-Q100 Revision H</th></tr> </thead> <tbody> <tr> <td data-bbox="502 1136 523 1417">A2</td><td data-bbox="523 1136 545 1417">A3</td><td data-bbox="545 1136 566 1417">A4</td><td data-bbox="566 1136 587 1417">A5</td><td data-bbox="587 1136 608 1417">B1</td><td data-bbox="608 1136 629 1417">B2</td><td data-bbox="629 1136 651 1417">B3</td><td data-bbox="651 1136 672 1417">B4</td><td data-bbox="672 1136 693 1417">B5</td><td data-bbox="693 1136 714 1417">C1</td><td data-bbox="714 1136 736 1417">C2</td><td data-bbox="736 1136 757 1417">D1</td><td data-bbox="757 1136 778 1417">D2</td><td data-bbox="778 1136 799 1417">D3</td><td data-bbox="799 1136 820 1417">D4</td><td data-bbox="820 1136 842 1417">D5</td><td data-bbox="842 1136 863 1417">E1</td><td data-bbox="863 1136 884 1417">E2</td><td data-bbox="884 1136 905 1417">E3</td><td data-bbox="905 1136 926 1417">E4</td><td data-bbox="926 1136 948 1417">E5</td><td data-bbox="948 1136 969 1417">E6</td><td data-bbox="969 1136 990 1417">E7</td><td data-bbox="990 1136 1011 1417">E8</td><td data-bbox="1011 1136 1033 1417">E9</td><td data-bbox="1033 1136 1054 1417">E10</td><td data-bbox="1054 1136 1075 1417">E11</td><td data-bbox="1075 1136 1096 1417">E12</td><td data-bbox="1096 1136 1117 1417">E13</td><td data-bbox="1117 1136 1139 1417">E14</td><td data-bbox="1139 1136 1160 1417">E15</td><td data-bbox="1160 1136 1181 1417">E16</td><td data-bbox="1181 1136 1202 1417">E17</td><td data-bbox="1202 1136 1224 1417">E18</td><td data-bbox="1224 1136 1245 1417">E19</td><td data-bbox="1245 1136 1266 1417">E20</td><td 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data-bbox="8001 1136 1632 1417">E330</td><td data-bbox="8022 1136 1632 1417">E331</td><td data-bbox="8045 1136 1632 1417">E332</td><td data-bbox="8066 1136 1632 1417">E333</td><td data-bbox="8088 1136 1632 1417">E334</td><td data-bbox="8111 1136 1632 1417">E335</td><td data-bbox="8132 1136 1632 1417">E336</td><td data-bbox="8153 1136 1632 1417">E337</td><td data-bbox="8176 1136 1632 1417">E338</td><td data-bbox="8197 1136 1632 1417">E3</td></tr></tbody></table>	Line evaluation (can be evaluated by data or audit on site check)	AEC-Q100 Revision H																A2	A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	D1	D2	D3	D4	D5	E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12	E13	E14	E15	E16	E17	E18	E19	E20	E21	E22	E23	E24	E25	E26	E27	E28	E29	E30	E31	E32	E33	E34	E35	E36	E37	E38	E39	E40	E41	E42	E43	E44	E45	E46	E47	E48	E49	E50	E51	E52	E53	E54	E55	E56	E57	E58	E59	E60	E61	E62	E63	E64	E65	E66	E67	E68	E69	E70	E71	E72	E73	E74	E75	E76	E77	E78	E79	E80	E81	E82	E83	E84	E85	E86	E87	E88	E89	E90	E91	E92	E93	E94	E95	E96	E97	E98	E99	E100	E101	E102	E103	E104	E105	E106	E107	E108	E109	E110	E111	E112	E113	E114	E115	E116	E117	E118	E119	E120	E121	E122	E123	E124	E125	E126	E127	E128	E129	E130	E131	E132	E133	E134	E135	E136	E137	E138	E139	E140	E141	E142	E143	E144	E145	E146	E147	E148	E149	E150	E151	E152	E153	E154	E155	E156	E157	E158	E159	E160	E161	E162	E163	E164	E165	E166	E167	E168	E169	E170	E171	E172	E173	E174	E175	E176	E177	E178	E179	E180	E181	E182	E183	E184	E185	E186	E187	E188	E189	E190	E191	E192	E193	E194	E195	E196	E197	E198	E199	E200	E201	E202	E203	E204	E205	E206	E207	E208	E209	E210	E211	E212	E213	E214	E215	E216	E217	E218	E219	E220	E221	E222	E223	E224	E225	E226	E227	E228	E229	E230	E231	E232	E233	E234	E235	E236	E237	E238	E239	E240	E241	E242	E243	E244	E245	E246	E247	E248	E249	E250	E251	E252	E253	E254	E255	E256	E257	E258	E259	E260	E261	E262	E263	E264	E265	E266	E267	E268	E269	E270	E271	E272	E273	E274	E275	E276	E277	E278	E279	E280	E281	E282	E283	E284	E285	E286	E287	E288	E289	E290	E291	E292	E293	E294	E295	E296	E297	E298	E299	E299	E300	E301	E302	E303	E304	E305	E306	E307	E308	E309	E310	E311	E312	E313	E314	E315	E316	E317	E318	E319	E320	E321	E322	E323	E324	E325	E326	E327	E328	E329	E330	E331	E332	E333	E334	E335	E336	E337	E338	E3
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**CURRENT
PRODUCTS**

Current product (silicon line FB50) will be transferred to TSMC Fab14A Taiwan. ST Crolles 300mm diffusion line will remain active as alternate solution.

Together with the above activity, opportunity is taken to rationalize products portfolio, by terminating some impacted devices (PTN – Product termination Notice in progress), as per below table:

PACKAGE DESCRIPTION	COMMERCIAL PRODUCT	PTN	REPLACEMENT
LQFP 100 14x14x1.4	SPC560B40L3B3E0X	PTN 11559/19	SPC560B40L3B4E0X
	SPC560B40L3B3EDX	new PTN	SPC560B40L3B4E0X
	SPC560B40L3B4E0X	NO	
	SPC560B40L3B4EDX	PTN 11559/19	SPC560B40L3C6E0X
	SPC560B40L3B6E0X	PTN 11559/19	SPC560B40L3C6E0X
	SPC560B40L3B6E0Y	PTN 11559/19	SPC560B40L3C6E0X
	SPC560B40L3C4E0X	PTN 11559/19	SPC560B40L3C6E0X
	SPC560B40L3C6E0X	NO	
	SPC560B44L3B4EVX	PTN 11430/19	SPC560B50L3B4E0X
	SPC560B50L3B4E0X	NO	
	SPC560B50L3B4E0Y	PTN 11559/19	SPC560B50L3C6E0Y
	SPC560B50L3B6E0X	NO	
	SPC560B50L3C4E0X	new PTN	SPC560B50L3C6E0X
	SPC560B50L3C6E0X	NO	
	SPC560B50L3C6E0Y	NO	
LQFP 144 20X20X1.4	SPC560C40L3C6E0X	new PTN	SPC560C50L3C6E0X
	SPC560C50L3B4E0X	NO	
	SPC560C50L3C6E0X	NO	
	SPC560C50L3C6E0Y	PTN 11434/19	SPC560C50L3C6E0X
	SPC560B40L5B4ET	NO	
	SPC560B40L5B6E0Y	NO	
	SPC560B40L5C6E0X	NO	

REPORTS

Validation procedure and results are reported in the attached Reliability Report (AEC-Q100/Q006) and Electrical Validation Report.

[12172 Validation.zip](#)



Public Products List

Public Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCN Title : SPC560xxx (FB50): Activation of TSMC as Additional Diffusion Plant (Following PCI ADG/19/11411)

PCN Reference : ADG/20/12172

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

SPC560B50L3B4E0X	SPC560B50L5C6E0X	SPC560B50L3B6E0X
SPC560C50L3C6E0X	SPC560B40L3B4E0X	SPC560B50L3C6E0X
SPC560B50L3C4E0X	SPC560C40L3C6E0X	SPC560B40L5C6E0X
SPC560B50L5C6E0Y	SPC560C50L3B4E0X	SPC560B40L3C6E0X
SPC560B50L3C6E0Y		



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