


PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCI No.	MICROCONTROLLERS/25/15132	
1.3 Title of PCI	Enhancement of STM32C011x, STM32C031x & STM32C071x HAL settings when using internal clock at 48MHz (STM32CubeMX and STM32CubeC0)	
1.4 Product Category	STM32C011x, STM32C031x, STM32C071x	
1.5 Issue date	2025-01-16	

2. PCI Team

2.1 Contact supplier	
2.1.1 Name	PIKE EMMA
2.1.2 Phone	+44 1628896111
2.1.3 Email	emma.pike@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Patrick AIDOUNE
2.1.2 Marketing Manager	Veronique BARLATIER
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Firmware modification : firmware is programmed in the memory without effect of electrical performance at the customer (bug fix)	N.A.

4. Description of change

	Old	New
4.1 Description	Before setting the system clock (SYSCLK) frequency to 48 MHz, the flash memory latency must be set to one wait state. However, the code generated by STM32CubeMX (versions before v6.13.0), and the project examples available in the STM32CubeC0 software packages (versions before v1.3.0), do not ensure this.	The fix consists in setting the number of wait states to one, before setting the HSI48 clock division factor to one. This fix is implemented in the following (and any subsequent) versions: - STM32CubeC0 v1.3.0 (November 2024) - STM32CubeMX v6.13.0 (November 2024) See more details in Additional Information document attached to this PCI
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	No change on the Commercial Product.	

5. Reason / motivation for change

5.1 Motivation	Hardware Abstraction Layer bug is fixed. Limitation fix on Software tools (STM32CubeMX or HAL examples in STM32CubeC0) only.
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	not applicable - only SW is updated
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7. Timing / schedule

7.1 Date of qualification results	2024-11-03
7.2 Intended start of delivery	2024-11-03
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation

8.1 Description	15132 _Additional information.pdf
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8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2025-01-16
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9. Attachments (additional documentations)			
15132 Public product.pdf			
15132 _Additional information.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
	STM32C011F4P6	
	STM32C011F4P7	
	STM32C011F4U6TR	
	STM32C011F6P3	
	STM32C011F6P3TR	
	STM32C011F6P6	
	STM32C011F6U6TR	
	STM32C011J4M6	
	STM32C011J6M6	
	STM32C031C4T6	
	STM32C031C4U6	
	STM32C031C6T6	
	STM32C031C6T7	
	STM32C031C6U6	
	STM32C031C6U7	
	STM32C031F4P6	
	STM32C031F6P6	
	STM32C031F6P7	
	STM32C031G4U6	
	STM32C031G6U3	
	STM32C031G6U6	
	STM32C031K4T6	
	STM32C031K4T7	
	STM32C031K4U6	
	STM32C031K4U7	
	STM32C031K6T3	
	STM32C031K6T6	
	STM32C031K6T7	
	STM32C031K6U3	
	STM32C031K6U6	
	STM32C031K6U7	
	STM32C071CBT6	
	STM32C071CBT6N	
	STM32C071CBU6	
	STM32C071CBU6N	
	STM32C071GBU6	
	STM32C071GBU6N	
	STM32C071KBT6	
	STM32C071KBT6N	
	STM32C071KBU6	
	STM32C071KBU6N	
	STM32C071RBT6	

	STM32C071RBT6N	
	STM32C071C8T6	
	STM32C071C8T6N	
	STM32C071C8U6	
	STM32C071C8U6N	
	STM32C071FBY6TR	
	STM32C071G8U6	
	STM32C071G8U6N	
	STM32C071K8T6	
	STM32C071K8T6N	
	STM32C071K8U6	
	STM32C071K8U6N	
	STM32C071KBT3	
	STM32C071R8T6	
	STM32C071R8T6N	
	STM32C071RBI6N	

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