PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data		
1.1 Company	577	STMicroelectronics International N.V
1.2 PCI No.		CRP/20/12482
1.3 Title of PCI		MBB (Material Barrier Bag) : extend print out warning message on shelf life
1.4 Product Category		Refer to list of impacted products (MDG perimeter)
1.5 Issue date		2020-12-17

2. PCI 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 Process Owner	Andrea BURRI	
2.1.2 Corporate Quality Manager	Gerard PETIT	

3. Change		
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	Any indirect material modifications for shipping products in dimensions, material, composition, orientation	ALL BE Manufacturing location

4. Description of change		
	Old	New
4.1 Description	Due to historical reasons, the MBB ST is providing for SMD (Surface Mount Device) products have printed advise message alerting on 12 months of shelf life in sealed bags.	To align with extended shelf life International trends, the print out advise message for SMD products and in any case all products packed with MBB will be changed alerting on 24 months of shelf life in sealed bags.
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	- Form: No change on product - Fit: No change on product - Function: No change on product - Reliability, or Processability: NA (Not applicable).	

5. Reason / motivation for change		
5.1 Motivation	The main benefits are: - Formalization that shelf life up to 24 months can be sustained - In any case, the advice is a general indication, while the principal MBB robustness proof remains the HIC (Humidity Indicator) control. If HIC didn't change color, this just proves that bag is still in good condition and is protecting device from possible moisture penetration.	
5.2 Customer Benefit	MANUFACTURING FLEXIBILITY	

6. Marking of parts / traceability of change		
6.1 Description	Visible on MBB Print-out label	

7. Timing / schedule		
7.1 Date of qualification results	2020-11-27	
7.2 Intended start of delivery	2021-01-08	
7.3 Qualification sample available?	Not Applicable	

8. Qualification / Validation			
3.1 Description			
8.2 Qualification report and qualification results	In progress	Issue Date	

9. Attachments (additional documentations)

12482 Public product.pdf 12482 PCI _MBB_W49.1.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
	M24C02-RMN6TP	
	M24LR16E-RMN6T/2	
	SPEAR600-2	
ST10F276Z5T3	ST10F276Z5T3	
	ST25R3912-AQWT	
	ST25R3916-AQWT	
	ST25R3917-AQWT	
	ST25R3920-AQWT	
	ST72F321BJ9T6	
ST72F324BJ2T6	ST72F324BJ2T6	
ST72F324BJ6T6	ST72F324BJ6T6	
	ST72F325J9T6	
	ST72F561J9TCS	
	ST7FDALIF2M6	
	ST7FLI19BF1M3TR	
	ST7FLIT15BF1M3	
ST7FLIT15BF1M6	ST7FLIT15BF1M6	
	ST7FLIT19BF1M3	
T7FLIT19BF1M6	ST7FLIT19BF1M6	
ST7FLITE02Y0M6	ST7FLITE02Y0M6	
T7FLITE05Y0M6	ST7FLITE05Y0M6	
T7FLITE19F1M6	ST7FLITE19F1M6	
T7FLITE25F2M6	ST7FLITE25F2M6	
T7FLITE29F2M6	ST7FLITE29F2M6	
T7FLITE29F2M6TR	ST7FLITE29F2M6TR	
	ST7FLITE35F2M6TR	
T7FLITE39F2M3	ST7FLITE39F2M3	
T7FLITE39F2M6	ST7FLITE39F2M6	
	STM32F030C6T6	
	STM32F030C6T6TR	
	STM32F030C8T6	
	STM32F030C8T6TR	
	STM32F030CCT6	
	STM32F030CCT6TR	
	STM32F030K6T6	
	STM32F030K6T6TR	
	STM32F030R8T6	
	STM32F030R8T6TR	
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	STM32F030RCT6TR	
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	STM32F031C6T6TR	

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STM32F031K6T6	
STM32F031K6T7	
STM32F031K6U6	
STM32F031K6U6TR	
STM32F031K6U7	
STM32F038C6T6	
STM32F038C6T7	
STM32F038G6U6	
STM32F042C4T6	
STM32F042C4U6	
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STM32F042C6T7	
STM32F042C6U6	
STM32F042C6U7	
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STM32F042G6U6	
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STM32F042K6T7	
STM32F042K6U6	
STM32F042K6U6TR	
STM32F048C6U6	
STM32F048G6U6	
STM32F048G000	
STM32F051C4U6	
STM32F051C406	
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STM32F051C617 STM32F051C6U6	
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STM32F071C8T6	
STM32F071C8T6TR	
STM32F071C8U6	
STM32F071CBT6	
STM32F071CBT6TR	
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STM32F071CB00	
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SIWISZEU/ IKDI/ IK	

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STM32F072C8T6	
STM32F072C8T6TR	
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STM32F072C8U6	
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STM32F207ZGT6	
STM32F207ZGT6TR	
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STM32F303ZET6	
STM32F303ZET7	
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STM32F318K8U6	
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STM32F334C6T6	
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STM32F334K6T6	
STM32F334K6T7	
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	STM8S903K3T6C	
	STM8S903K3T6CTR	
	STM8S903K3U3	
	STM8S903K3U3TR	
	STM8S903K3U6	
	STM8S903K3U6TR	
	STM8SPLNB1M6	
	STM8TL52G4U6	
	STM8TL53C4U6	
	STM8TL53G4U6	
	STR710FZ2H6TR	
STR710FZ2T6	STR710FZ2T6	
STR711FR1T6	STR711FR1T6	
STR711FR2T6	STR711FR2T6	
STR712FR2T6	STR712FR2T6	
	STR730FZ2T6	
	STR731FV2T6	
	STR731FV2T7	
	STR735FZ2T7	
	STR736FV2T6	
	STR750FV1T6	
	STR750FV2T6	
	STR755FV0T6	
	STR755FV1T6	
	STW81200TR	
	STM32G070CBT6TR	
	STM32G483CET3	
	STM32L4Q5RGT6	
	STM32WLE5C8U6	
	STM32F303VEH6	
	STM32G473VEH6	
	STM32WB55CGU6TR	
	STM32WLE5CCU7	

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PRODUCT / PROCESS CHANGE INFORMATION

MBB (Material Barrier Bag): extend print out warning message on shelf life

What is the change?

Current condition:

Due to historical reasons, the MBB ST is providing for SMD (Surface Mount Device) products have printed advise message alerting on 12 months of shelf life in sealed bags.

New condition:

To align with extended shelf life International trends, the print out advise message for SMD products and in any case all products packed with MBB will be changed alerting on 24 months of shelf life in sealed bags.

Current condition



New condition



Why?

The main benefits are:

- Formalization that shelf life up to 24 months can be sustained
 - In any case, the advice is a general indication, while the principal MBB robustness proof remains the HIC (Humidity Indicator) control. If HIC didn't change color, this just proves that bag is still in good condition and is protecting device from possible moisture penetration.

When?

The new MBB with 24 months print out advice will progressively replace the MBB with current 12 months advice, target to start gradually from beginning January 2021.

The overall transition period could last up to one year. Higher volumes impacted from April 2021. For very low volume products the transition period could be longer.

During the transition period, MBB with both 12 months AND 24 months warning message can be shipped to allow stock depletion. It is not guaranteed a strict adherence to FIFO during the transition period when both print out warning messages could be received.

How has the change been qualified?

- Control on MVTR (Moisture Vapour Transmission Rate) parameter of the MBB used by ST internal and external plants: value in line with Jedec and ST specifications
- Compensation with higher Nb of dessicants, in few cases where MVTR value was higher than expected

What is the impact of the change?

Form: No change on product
Fit: No change on product
Function: No change on product

- Reliability, or Processability: NA (Not applicable).

The change is impacting many products (all the products packed with MBB Material Barrier Bar). In order to manage all the impacted products, we were obliged to split the products list in three sub-lists: Customers might receive double or triple notification letters with same content.

How can the change be seen?

Change will be seen at unpacking of inner boxes and controlling the MBB print out advice.

APPENDIX 1: RISK ASSESSMENT

#	Risks identified	Potential risk resulting from	Class (Low / Medium)	Considered action
1	MBB degradation	Humidity penetration in MBB (Material Barrier Bag)	low	HIC (Humidity Indicator) control on each box. If HIC didn't change color, this just proves that bag is still in good condition and is protecting device from possible moisture penetration.

APPENDIX 2: QUALIFICATION PLAN and QUALIFICATION RESULTS

Test name	Conditions	Sample size	Criteria	Results
Packing material checking	puncture/holes check	1 reel, 1 tube, 1 tray (each one	No puncture/holes	PASS
	Over vacuum check	with with different package)	No over vacuum	PASS
	Seal strength	, , ,	8 lbs/in (min)	PASS
	Surface resistance		Inner: 1E11 W > SR >=1E4 W; Outer: less 1E11 W	PASS
	Tensile strength		> 4,500 psi (MD/TD)	PASS
HIC	HIC control		change in color < 10%)	PASS
Dessicant	Dessicant weight control		weight after taking-out from bag (g); verify day after (if still able to absorb moisture (g)	PASS
ST spec and Jedec J_STD_033C require same MVTR value (Moisture vapour Transmission Rate) for MBB / MVTR >0.0003 grms/100 sq. in./24hrs				
Verification with all Subco of MVTR value in line with ST (and Jedec J_STD_033C spec) requirement IN LINE				



Public Products List

Publict 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

PCI Title: MBB (Material Barrier Bag): extend print out warning message on shelf life

PCI Reference: CRP/20/12482

Subject: Public Products List

Dear Customer,

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

STM32F412ZGT6	STM32F103VBI6	STM32F439VIT6
STM32L100R8T6TR	STM32H743XIH6	STM32L4P5ZET6
STM32F427VGT6TR	STM32F765IGT6	STM32F413CGU6
STM32F207IGT7	STM8S903K3T6C	STM32F205ZCT7
STM32F207VFT6TR	STM32F407ZGT6J	STM32F427ZIT7
STM32G031G6U6TR	STM8AF6266TCX	STM32F205ZCT6TR
STM32L073RZI6TR	STM32L081CBT6TR	STM32L4A6RGT7
STM8S208RBT6	STM8AF5289TAY	STM32L072VBT6
STM32G041G6U6	STM32F767ZGT6	STM32F071CBT6
STM32H725AGI3	STM8L151C8T6TR	STM32F765IGK6
STM32F101CBT6	STM32F098CCT6	STM32F207ZGT6
STM32H753XIH6TR	STM32F071CBU7TR	STM32F051K8U6
STM32F405RGT6	STM32L412RBI6	STM32F030R8T6
STM8AL31E89TAY	STM32F103CBT6TR	STM32L475RCT6
STM32H747XGH6	STM32F101C8U6TR	STM32F051K6T7TR
STM32F427ZIT6	STM32H755BIT3	STM32F429IIH6
STM32F207VCT6TR	STM32L431KBU6TR	STM32F417IET6
STM32L072KBU7TR	STM8AF62A8TCX	STM8L151C2T6
STM32F031K6U7	STM8TL53C4U6	STM32L4R7VIT6
STM32G473RBT6	STM32F407ZGT7	STM32G431CBU6
STM32G081CBT6	STM32F205ZGT6TR	STM32F101RDT6TR
STM32F071C8T6TR	STM32F103RFT6	STM32F101R8T6
STM32F765ZIT6	STM32F107RCT6	STM32F103R4T6A
STM32F411RCT7	STM8SPLNB1M6	STM32L052R8T6
STM32L152CBU6	STM32F101CBU6TR	STM32L552VET6
STM32F407IGH7	STM32H743AII6TR	STM32F100R8T7BTR
STM32F205RCT6	STM32F334C4T6	STM32F205RET6TR
STM8S207R8T3TR	STM32F031G4U7	STM32F427IIH7
STM32F031C6T7TR	STM8L152R8T3	STM8S903K3U3TR
STM32WLE5JCI6	STM32F103CBU6	STM32MP153DAD1
STM32F302CCT6	STM32F101RCT6	STM32G431KBU6
STM32MP153DAC1	STM32L152VET6TR	STM8S105K4T6C
STM32H742IIK6	STM32H753VIT6	STM32G071CBT3
STM32L083RZH6	STM32F205ZCT6	STM32F429NIH6J
STM32L053C8T3	STM32L476VET6TR	STM32F205VGT6TR
STM32L443CCU6	STM32F071RBT7TR	STM8L052R8T6TR

STM32L471ZET6TR	STM32L4R7AII6	STM32F446ZEH6TR
STM32F412VET6TR	STM32G071KBT6N	STM8S207C6T6TR
STM32F415VGT6	STM32L562QEI6	STM8S105K4T3CTR
STM32L051C8T6	STM8S208C6T3	STM32L071CZT6
STM32F101ZDT6	STM32L151R8T6A	STM32F051K8T6
STM32L083RZT6	STM32F105R8T6TR	STM32L052K8U6
STM32F429IIH6TR	STM32F429AIH6	STM32F030K6T6
STM32L072RZT6	STM32G031C8T6	STM32F417IGT6
STM32F051C4T6TR	STM32F072CBT6	STM32F207ICH6
STM32F303C8T6	STM32F100R8H6B	STM32F207ZCT6
STM32F072C8U7	STM32F071CBT7TR	STM32F730R8T6
STM32L071CBT7	STM32F207VGT6J	STM32F411CEU6
STM8S103K3U6TR	STM32L031K6U7	STM32F407ZGT6TR
STM32G071G8U6N	STM32F103RDT6TR	STM32F303VDH6
STM32G441KBU6	STM32H7A3IIT6	STM32F417IGH6
STM32F765NIH6	STM32F417VET6TR	STM32F413CHU6TR
STM32F439IIH6	STM32F101C8U6	STM8S208S6T6C
STM32L152R6T6	STM32L152VBT6	STM32L051K6U6
STM32L071CZT6TR	ST72F521AR9TCS	STM32L083CZT6
STM32MP157AAC3T	STM32L151CCT6	STM32G484CEU6
STM32F205RFT6	STM32L162RET6TR	STM32L4P5RET6
STM32F205RET6	STM32F051K6U6TR	STM32L4R9ZIT6
STM8S103K3T6C	STM32G431C6U6	STM32F302VCT7TR
STM32L4S5AII6	STM32F042C6U7	STM32G473QCT6
STM32H747IIT6	STM32F412VGT7	STM32L496RET6
STM32L432KBU6TR	STM32F401RCT7	STM32F071CBU6TR
STM32L072V8I6	STM32F101RET6	STM32F102CBT6TR
STM32F745ZGT7	STM32F439ZGT6TR	STM32F407IGT7
STM32F051R8T7	STM32G081KBT6	STM32F051C6T7
STM32L073VZT6D	STM32L073CBT6	STM32G070RBT6
STM32F103R8T6TR	STM32F765ZIT7TR	STM8L151C6T6
STM32H755IIK6	STM8S208CBT6TR	STM32F103VBT7
STM32L486RGT6	STM32F205VFT6TR	STM32F031K6T7TR
STM32F401RET6	STM32F417VGT6	STM32L476RET6TR
STM32H7B0VBT6	STM32H7A3ZIT6	STM8L151C6U6
STM32F205VGT6W	STM8S207MBT6B	STM32L041C6U6
STM32F745IEK7TR	STM32F207VGT7	STM32F722ZCT6
STM32H742XIH6	STM8L152R6T6TR	STM32F102RBT6
STM32L152R6T6TR	STM32F407VET6TR	STM32F072C8U6TR
STM32F051K6U7	STM32F071V8T7	STM32F746IGK7
STM32G071C8T6	STM32F103C8T7	STM32F217VET6
STM32F446VCT6	STM32L422CBU6	STM32F469NGH6
STM32L052K6U6TR	STM32F217IET6	STM32L4R9VIT6
STM32G473CCT3	STM8S207RBT6	STM32H723VGH6
STM32F051C8U6TR	STM8L052C6T6	STM8S208C6T6TR
ST72F561K6TCXS		STM32F407ZET7
	STM32L051R8T7	
STM32F427IGH6TR	STM32L051R8T7 STM32L053C6T7	STM32F401RDT6
STM32F427IGH6TR STM32L100RCT6TR		STM32F401RDT6 STM32L496RET6TR
	STM32L053C6T7	

CTM22LIZ4ELOV2	CTM20F074C0T2	CTM22F44EDCTCTD
STM32F054C014C	STM32F4C07ITC	STM32F415RGT6TR
STM32F051C8U6	STM32F469ZIT6	STM32F301K8U6TR
STM32F207ZCT7	STM32H745ZIT6	STM32H725VET6
STM32L562CEU6TR	STM32L4Q5AGI6	STM32F205VGT6V
STM32F072VBH6TR	STM32L051R8T6	STM32F207VCT6
STM32F051C4T6	STM32G030C6T6TR	STM32F205RBT6
STM32F207VGT6	STM32G031K6T6	STM32F101C8T6
STM32F072CBU6TR	STM32F217ZET7	STM32F429NIH6TR
STM32F765VIT6	STM32F207IFH6	STM32F103CBT7
STM32F746ZGT6	STM32L562CET6	STM8S208R8T6
STM32L063R8T6	STM32L151RDT7	STM32F407VGT6TR
STM32F405ZGT6J	STM32L451CEU6TR	STM32H750XBH6
STM8L151M8T6	STM32F732IEK6	STM32F100VET6B
STM32H750IBK6	STM32F303RDT6	STM32H725AEI6
STM32F429ZGT6	STM32F302VCT6	STM32G071GBU6
STM32L062K8T6	STM32L471VGT6TR	STM32L431KBU3
STM32L496ZET6	STM8S003K3T6CTR	STM32F423RHT6TR
STM32F469AEH6	STM32F091CCT6TR	STM32F042K4T6TR
STM32L071KBU6TR	STM32F072C8T6TR	STM32F091CCU7TR
STM32F373CBT6	STM32L443RCI6	STM32H725IGK3
STM8AF52A6UCY	STM32L475VCT6	STM32MP157DAC1
STM32L152R8T6A	STM32F102C8T6	STM32F051C6T7TR
STM32L151VET7	STM32F405RGT6V	STM32F405VGT6TR
STM32H7B3VIH6	STM8L152M8T3	STM32F205VGT7
STM32L4R9ZGJ6	STM32F469ZGT6TR	STM32F102C4T6ATR
STM32F303RCT6	STM32F098VCH6	STM32F732VET6
STM32F051K4T6TR	STM32F071CBT7	STM8L151R8T6TR
STM32F101VDT6TR	STM32F401CBU7	STM32H7B0ZBT6
STM32L053R8H6	STM32F105RCT7	STM32F098CCU6TR
STM32L451RCT6	STM32F030K6T6TR	STM32F071RBT6
STM32F469VIT6	STM32L052K8U3	STM32F103VBT6TR
STM32L010RBT6	STM8S207R8T3	STM32G030K8T6TR
STM32F765VGH6	STM8S105K4U6A	STM32F215RET6
STM32F405ZGT6W	STM32F058R8H6TR	STM32G473VBH3
STM32F051C8U7TR	STM32F446RCT6	STM32F042G6U7
STM32L432KBU6	STM32F302RET6TR	STM32F072V8T6
STM8S105C6T6	STM32F407IGH6TR	STM32L072KZU6
STM32L073RZI6	STM8S103F3M6	STM32F103RFT6JTR
STM32F051C6T6TR	STM32F102R8T6	STM32F051C8T7
STM32F205VCT7	STM32L081CBT6	STM32F103ZGH7
STM32L073CZU6D	STM32G030K6T6TR	STM32F415RGT6
STM32F031G6U6	STM32F417VGT7	STM32L073VZT3
STM32F207ZET6	STM32F401RCT7TR	STM32F437IIT7
STM32G473MCT3	STM32F103C6T7A	STM32L562RET6
STM32L151QDH6	STM32F410RBT7	STM32MP157AAA3
STM32F031C6T7	STM32H743IIT6	STM32F411VCT6TR
STM32L4A6QGI6P	STM32F417VGT6TR	STM32G431C8T6
STM32F303RBT6	STM32F072CBT6TR	STM32G473RCT6
STM32G081CBT6TR	STM32F038G6U6	STM32F103TBU6
STVVGLNA	STM32F051C6T6	STM32L053R8T6

STM32F205VET6TR	STM32F745VEH6TR	STM32H730VBH6
STM32L011G4U6TR	ST72F324BK6TAS	STM32F479BGT6
STM32F429IIT6	STM32F051K8T7	STM32L471QGI6
STM32F101V8T6	STM32F767VGH6	STM32F031C4T6TR
STM32F427AGH6	STM32F071C8U7TR	STM32L476VET6
STM32H7B0IBK6Q	STM32F318K8U7	STM32F417IGT7
STM32G031K4U6	STM32L151R8T6	STM32G431R6T6
STM32F031K6U7TR	STM32F070CBT6TR	STM8S903K3U3
STM32G431K8T6	STM32F217VGT6TR	STM32F439IGH6
STM32F446ZCT6	ST72F321AR9TAXS	STM32F334R8T7TR
STM8L151C4T6TR	STM32F412VET3TR	STM32G431C8U6
STM32F103VFT6TR	STM32F105VCT6V	STM32F401CCU6
STM32F302RBT6TR	STM32F217IGH6	STM32F427VGT6
STM32F105RCT6	STM32F101VCT6TR	STM32F072CBT7
STM32F103ZEH7TR	STM32F207ZGT6J	STM32G473VBT6
STM32F072RBT6TR	STM32F401VET6	STM32G431VBT6
STM32F429ZIT7	STM32F722ICK6	STM32F103VET7TR
STM32H742AII6	STM32F103RET6	STM32F100RBT6BTR
STM32F072V8H6	STM32F205VCT7TR	STM32F103RCT7TR
STM32WB55REV7	STM32F071CBT6TR	STM32F101RCT6TR
STM32G070CBT6TR	STM32F373V8T6	STM32F107RBT6TR
STM8L151G6U6	STM32F745IEK7	STM32F072C8T7
STM32L072VZT6	STM32F439BIT6	STM32G070KBT6
STM32F100R4T6B	STM32F051K4U6	STM32F479ZIT6
STM32L052K8U6DTR	STM32F030RCT6	STM32F373CCT6
STM32G071GBU3	STM8L151C8T7	STM32L471RET6TR
STM32L083CBT6	STM32F302RCT6	STM32F479NIH6
STM32F469IEH6	STM32F303K8T6	STM32F105VBH6
STM32F072RBT7	STM32G431K6U6	STM32F412VET3
STM32F051R6T6TR	STM8S105K4U3ATR	STM32L072RZI6D
STM32L162QDH6TR	STM8S207RBT6TR	STM32L151CBU6
STM32F101VET6	STM32H7B3VIT6Q	STM32F205VCT6
STM32G441RBI6	STM32L433RBI6	STM32MP157DAB1
STM32F058R8H6	STM32L053C6U6	STM32F205VET7
STM32L412CBT3	STM32L4R9ZGT6	STM8AF6246UAY
STM8S105K6T6C	STM32F303VBT7	STM32F423ZHT6
STM32F413CHU6	STM32F071VBT6TR	STM32F745IET6
STM32F031C4T6	STM32F072CBU6	STM32L071RBT7
STM32H747XIH6	STM32F030C6T6	STM8S207RBT3TR
STVVGLNAT	STM32F722ZET6TR	STM32H725IGK6
STM32L471ZET6	STM32MP157CAD3T	STM32L162VET6TR
STM32F207VCT7	STM32L433VCT6	STM32F205RGT6W
STM32L082KBU6	STM32F072CBU7TR	STM32L071CZU6
STM32F427IGT6	STM32F042K6T6	STM32F411CEU6TR
STM32L151CBU6D	STM32WB55CEU6TR	STM32L051K8U6TR
STM32L051R8H6TR	STM32F100R8T7B	STM32F777IIK6
STM32F413RGT6		STM32F301K8U6
	STM32F101RDT6	01101321 30111000
STM32L053R8T3	STM32F101RDT6 STM32F415ZGT6	STM32F437IGT6
STM32L053R8T3 STM32F103ZEH6TR		

CTM22E070VDTC	CTM221 0721/0T2	etworeons/jete
STM32F078VBT6	STM32L073V8T6	STM32F205VET6
STM32F407IEH6TR	STM32F205VGT7TR	ST72F321AR9T3
STM8S005C6T6	STM32F756ZGT6	STM8AF52A9TCY
STM32F100RET7BTR	STM32H743VIH6TR	STM32F417VET6
STM32F767BIT6	STM32F207IGH6	STM32F103C6T6ATR
STM32F105RBT6	STM32F091VCT7	STM32F437ZIT7TR
STM32F429NIH6	STM32F103RBT6	STM32F051C8T6TR
STM32F765BIT6	STM8S903F3M6TR	STM32F765NIH7
STM32WB55CCU7	STM32L071V8T6TR	STM32F407IGH6
STM32F405ZGT7	STM32F103ZFT6	ST7FLITE05Y0M6
STM32F071V8T6	STM32F051R8H6	STM32F215VET6
STM32F091CCT6	STM32F407ZET6	STM32H743IIK6
STM32F769NGH6	STM32F401RET7	STM32H742BIT6
STM32F407VGT6J	STM32F765IIT6	STM32L433VCI6
STM32G473MBT6	STM32F334C6T7	STM32H753BIT6
STM8S105S6T6CTR	STM32G081KBU6	STM8L152K6T6
STM32F469ZET6	STM32F334C8T7TR	STM32G071GBU6TR
STM32F078RBH6TR	STM32F070C6T6TR	STM32F405VGT6V
STM32L052K8U6D	STM32F030C8T6	STM32G474CBT3
STM8AF6366TCY	STM32F207IFT6	STM32F103ZDH6
STM32F051C8T7TR	STM32F405VGT6W	STM32F429IIT6J
STM32H745IGT6	STM32F107VCT6TR	STM8S207K6T3C
STM32F031C6T6TR	STM32F042K6T6TR	STM32F042C6T6TR
STR750FV1T6	STM32G441CBT6	STM32G041K6T6
STM32F205RET7TR	STM32F429BGT6	STM32F072RBT6
STM32F429ZIT6	STM32F205RBT6TR	STM32F100VDT6BTR
STM32F071C8U6	STM32H742VGT6TR	STM8S207R8T6TR
STM8L052R8T6	STM32F429NIH7	STM32G484CET6
STM32F051R8T7TR	STM32F103C8T6	STM32F031G6U6TR
STM32F767IGK6	STM32L476VGT7	STM32F303CCT7
STM32H743BGT6	STM32G071CBU6TR	STM32H753ZIT6
STM32F091VBT7	STM32F412RET7TR	STM32L151RBT6ATR
STM32F334K4T6	STM8S207K8T6C	STM32F205RCT7
STM32F429ZIT6TR	STM32F415VGT6TR	STM32F334K8T7
STM32F105RCT6V	STM32L151RET6TR	STM32L4P5CET6
STM32F427V6T7	STM32L486VGT3	STM32F334R6T6
STM32F437VGT7	STM32F103C6T7ATR	STM32L476VCT6
STM32L051C8T3	STM32F302VCT6TR	STM8AF5289TCY
STM32F101VBT6	STM32F103RGT6TR	STM32F031K6T7
STM32L4P5AGI6P	ST92F150JDV1QCE	STM8L152M8T6
STM32F446RCT7	STM32L4S7AII6	STM32F401RCT6TR
STM32F051R4T6TR	STM32F101RGT6	STM8S105C4T6
STM32F072C8T6	STM32F042K6U6	STM32F072R8T6
STM32F051R6T7TR	STM32F103RDT6	STM32F207IGT6
STM32F405VGT7	STM32F413RGT6TR	STM32L433CCU6
STM32F405ZGT6	STM32L152RBT6	STM32F051K6U7TR
STM32F091RBT6	STM32F411RET7	STM32F217ZET6
STM32F100C4T7B	STM32F401CCU7	STM32F103VCT6
STM8L101G2U6	STM32L422RBT6	STM32F334R8T6TR
STM32L412KBT6	STM32WB55CCU6	STM32F207ZGT6TR

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STM32F042C4T6	STM32G474VBT3	STM32L151C8U6
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STM32L021K4T6	STM32L072VBI6	STM32WB55VEQ6
STM32F413ZGT6	STM32F733IEK6	STM32F302RCT7
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STM8AF6266TDX	STM32F301K6U6TR	STM32L431CBU6
STM8AL31E88TAY	STM32F30TK000TK	STM32F302VDT6TR
STM32G474VCT6	STM32L151R6H6A	STM8S207R8T6C
STM32L052R8H6	STM32F413ZHT3	STM32L011G3U7
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STM32E0E4 VOLLETD	STM8AL3L46TCY	STM32F412ZGJ6TR
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STM32F401RET6TR	STM32L151C8T6A	STM32F103ZGT6
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STM8AL3LE89TCX	STM32F777NIH6	STM32L562CEU6
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STM32MP153CAB3	STM32L031G6U6	STM32F103RBH6
STM32H7A3IIK6	STM8AL3168TCY	STM8L152C8T6
STM32L072RZI6DTR	STM32F303VET6TR	STM32MP153AAB3
STM32F334K6T7	STM8L101G3U6TR	STM32L151VBH6TR
STM32F051K4T6	STM8AF6226TCY	STM32L552VCT6Q
STM32F078RBH7TR	STM32L100RBT6ATR	STM8L151G2U3TR
STM32MP157CAB3T	STM32F103R8H7	STM32L151R8H6A
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STM32L4S7ZIT6	STM32L151C8T6TR	STM32L4Q5RGT6
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STM8AL3146UAX	STM32L4R9VGT6	STM32L475RCT7TR
STM32F302VDT6	STR712FR1T6	STM32F412VGH6
STM32L443VCI6	STM32G031K8T7	STM32F100ZDT6B
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STM8AL3136UCX	STM32G030K8T6	ST72F324BJ6T3
STM32G431RBT6TR	STM8AF62A9TCY	STM32F767VIT6
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STM32MP157AAA3T	STM32MP151CAA3T	STM32MP151DAA1

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