


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	MMS/15/9108	
1.3 Title of PCN	Amkor ATP (Philippines) additional back-end source for STM8 and STM32 non automotive products in LQFP 7x7 & 10x10 packages	
1.4 Product Category	STM8 and STM32 family products, assembled in LQFP 7x7 and LQFP 10x10 packages listed in Detailed description document attached	
1.5 Issue date	2015-06-25	

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	Michel BUFFA
2.1.2 Marketing Manager	Daniel COLONNA, Veronique BARLATIER
2.1.3 Quality Manager	Pascal NARCHE

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
Materials	Any change on substrate (part number, supplier, plant, design or composition of any layer...)	STATS ChipPAC Shanghai (China), ST Muar (Malaysia), Amkor ATP (Philippines)

4. Description of change

	Old	New
4.1 Description	Manufacturing sites : STATS ChipPAC Shanghai (China) & ST Muar (Malaysia)	In order to sustain the strong demand on STM8 and STM32 devices and provide a better service to our customers, ST Microcontrollers Division will add ATP (Philippines) back-end source for non automotive STM8 and STM32 family products in LQFP 7x7 and LQFP 10x10 packages. This line is already qualified.
4.2 Anticipated Impact on form, fit, function, quality, reliability or processability?	form : lead color and surface finish could change	

5. Reason / motivation for change

5.1 Motivation	Due to the success on the market of STM8 and STM32 devices, Microcontrollers Division decided to qualify an additional source to maintain state of the art service level to our customers, improving flexibility on manufacturing sites, thanks to extra capacity.
5.2 Customer Benefit	CAPACITY INCREASE

6. Marking of parts / traceability of change

6.1 Description	See in Detailed description document attached
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7. Timing / schedule

7.1 Date of qualification results	2015-06-19
7.2 Intended start of delivery	2015-09-26
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	9108_qual report_MCDRER1313_qual plan_MCDRER1515.pdf
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8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2015-06-25
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9. Attachments (additional documentations)			
9108PpPrdtLst.pdf			
9108_Detailed description.pdf			
9108_qual report_MCDRER1313_qual plan_MCDRER1515.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
	STM32F030C6T6	
	STM32F030C8T6	
	STM32F030K6T6	
	STM32F030R8T6	
	STM32F031C4T6	
	STM32F042C6T6	
	STM32F042K6T6	
	STM32F051C4T6	
	STM32F051C6T6	
	STM32F051C8T6	
	STM32F051C8T6TR	
	STM32F051K4T6	
	STM32F051K6T6	
	STM32F051K8T6	
	STM32F051R4T6	
	STM32F051R4T6TR	
	STM32F051R6T6	
	STM32F051R8T6	
	STM32F051R8T6TR	
	STM32F070CBT6	
	STM32F070RBT6	
	STM32F072CBT6	
	STM32F072RBT6	
	STM32F091CCT6	
	STM32F091RCT6	
	STM32F100C4T6B	
	STM32F100C6T6B	
	STM32F100C8T6B	
	STM32F100CBT6B	
	STM32F100R4T6B	
	STM32F100R6T6B	
	STM32F100R8T6B	
	STM32F100RBT6B	
	STM32F100RCT6B	
	STM32F101C8T6	
	STM32F101CBT6	
	STM32F101R6T6A	
	STM32F101R8T6	
	STM32F101RCT6	
	STM32F101RET6	
	STM32F101RFT6	

	STM32F101RGT6	
	STM32F102C6T6A	
	STM32F102CBT6	
	STM32F102R8T6	
	STM32F102RBT6	
	STM32F103C4T6A	
	STM32F103C6T6A	
	STM32F103C6T7A	
	STM32F103C8T6	
	STM32F103C8T7	
	STM32F103CBT6	
	STM32F103CBT7	
	STM32F103R4T6A	
	STM32F103R6T6A	
	STM32F103R8T6	
	STM32F103R8T7	
	STM32F103RBT6	
	STM32F103RBT7	
	STM32F103RCT6	
	STM32F103RCT7	
	STM32F103RDT6	
	STM32F103RET6	
	STM32F103RET7	
	STM32F103RFT6	
	STM32F103RGT6	
	STM32F302C8T6	
	STM32F302R8T6	
	STM32F303C8T6	
	STM32F303CCT6	
	STM32F303R8T6	
	STM32F303RCT6	
	STM32F303RCT7	
	STM32F303RET6	
	STM32F334C4T6	
	STM32F334C6T6	
	STM32F334C8T6	
	STM32F334K4T6	
	STM32F334K6T6	
	STM32F334K8T6	
	STM32F334R6T6	
	STM32F334R8T6	
	STM32F373C8T6	
	STM32F373CBT6	
	STM32F373CCT6	
	STM32F373RBT6	
	STM32F373RCT6	
	STM32F401RCT6	
	STM32F401RET6	
	STM32F411RCT6	
	STM32F411RET6	
	STM32F446RET6	

	STM32L051C6T6	
	STM32L051C8T3	
	STM32L051C8T6	
	STM32L051K8T6	
	STM32L051R8T6	
	STM32L052C8T6	
	STM32L052K8T6	
	STM32L052R8T6	
	STM32L053C8T6	
	STM32L053R8T6	
	STM32L100RBT6	
	STM32L151C6T6	
	STM32L151C8T6	
	STM32L151CBT6	
	STM32L151R8T6	
	STM32L151RBT6	
	STM32L151RDT6	
	STM32L152C8T6	
	STM32L152CBT6	
	STM32L152RBT6	
	STM8L052R8T6	
	STM8L151C3T6	
	STM8L151C8T6	
	STM8L151R6T6	
	STM8L151R8T6	
	STM8S003K3T6C	
	STM8S103K3T3C	
	STM8S103K3T6C	
	STM8S105S6T3C	
	STM8S207S6T3C	
	STM8S207SBT6C	
	STM8S208S6T6C	
	STM32F071CBT6	
	STM32F071RBT6	
	STM32F101C6T6A	
	STM32F303K8T6	
	STM32L152R8T6	
	STM32L152RBT6A	
	STM32L152RET6	

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Public Products List

PCN Title : Amkor ATP (Philippines) additional back-end source for STM8 and STM32 non automotive products in LQFP 7x7 & 10x10 packages

PCN Reference : MMS/15/9108

PCN Created on : 19-Feb-2015

Subject : Public Product List

Dear Customer,

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

STM8S207S6T3CTR	STM32F303RET7	STM32F103RDT6TR
STM32F101R8T6	STM32F101R8T6TR	STM8S903K3T6CTR
STM32L063R8T6	STM32F091RBT6	STM32F051C8T6
STM32F103RCT6	STM32L151RCT6ATR	STM32L053R8T7
STM32F102R6T6A	STM32F070C6T6	STM8L152R6T6
STM8L101K3T6	STM32F103CBT6	STM32F103R8T6
STM32L052C6T6	STM8S103K3T6CTR	STM32F100RBT6B
STM32L476RGT6	STM32F334K4T6	STM8L151C8T6
STM32F101RBT6	STM32F103CBT7	STM32F100C6T6BTR
STM32F334K8T7	STM32L151R8T6A	STM32L053C8T6
STM32F101RCT6TR	STM32F102R8T6	STM32F030C8T6
STM32F038C6T6	STM32F103C8T6TR	STM32F100CBT6B
STM32F373RCT6TR	STM32F103RDT6	STM32F030K6T6
STM32F302RDT6	STM32F103RCT7	STM32F051K6T7TR
STM32F030C8T6TR	STM32F100C8T6B	STM32F101RDT6
STM32F072R8T6	STM32F103C8T7	STM8L152R8T6
STM32L151CBT6	STM32F042C4T6	STM32F072C8T6
STM32L152RDT6	STM32L051R8T6	STM8S903K3T6C
STM32F100R8T7B	STM32F031K6T7	STM32L051R6T6
STM32F100RBT6BTR	STM32F070RBT6	STM32L151CBT6TR
STM32F103RFT6	STM8S207S8T3CTR	STM32F101CBT6
STM32F303CBT6TR	STM8S103K3T3CTR	STM32F100RCT6B
STM32L152R8T6TR	STM32L151RBT6A	STM32F334K8T6
STM32F102C8T6TR	STM32F100R6T6B	STM32L051C8T7
STM32F051R8T6	STM32F103RBT6	STM32F373CBT6
STM32L152RCT6A	STM32F101CBT6TR	STM32F101RDT6TR
STM32F072R8T6TR	STM32F100C6T6B	STM32F101R4T6A
STM32F051C4T6	STM8S207S6T3C	STM32L151C8T6A
STM32F051K6T7	STM32L151RDT6TR	STM32F101RET6
STM32F401RDT6	STM32F401RCT6	STM32F103CBT6TR
STM32F051C6T6TR	STM32F302C6T6	STM32L162RCT6
STM8L151R6T6	STM32F100R8T6B	STM32F051K8T7
STM32F103C8T7TR	STM8S208S6T3C	STM32F072CBT6
STM32F103RET7	STM32F102CBT6TR	STM8L052R8T6TR
STM32F101C6T6A	STM32F103R6T6ATR	STM32F103C6T6A
STM32F102C4T6A	STM32F328C8T6	STM32F100C8T6BTR



Public Products List

STM32F051R6T6TR	STM32F303RCT6	STM32F373RCT6
STM32F031C6T7	STM32F103RET6	STM32F103R4T6A
STM32L151RET6	STM32F102C8T6	STM32F038C6T7
STM32L151R6T6TR	STM8S105S4T6C	STM32F072RBT6
STM32F102RBT6	STM32F102CBT6	STM8S207S6T6CTR
STM32F051C8T7TR	STM32F102RBT6TR	STM32F101RBT6TR
STM8S103K3T3C	STM32L051K8T6	STM32F051K6T6TR
STM32F103C4T6A	STM32L100R8T6A	STM8S105S6T6C
STM32F071CBT6TR	STM32F302R6T6	STM32F373R8T6TR
STM8L152C8T6	STM32L151CCT6TR	STM32F091RCT6
STM32L051C8T6TR	STM32F103R6T6A	STM32L152RBT6A
STM32F103CBT7TR	STM8S207S6T6C	STM32F302RCT6TR
STM32F401RET6	STM8L151C2T6	STM32L052K6T6
STM8S003K3T6C	STM8S207S8T3C	STM32F301C8T6
STM32F051R4T6	STM32F334C8T6	STM32F334C4T6
STM32F334C8T7	STM32F303CBT7	STM32F100RDT6BTR
STM32L052K8T6	STM32L151RBT6D	STM32L152CCT6
STM32F103R8T7TR	STM32F100CBT6BTR	STM32F103RET6TR
STM32F071RBT7TR	STM32F378CCT6	STM32L053C6T6
STM32L053R6T6	STM32F100C4T6BTR	STM32F303RET6
STM32F100R4T6B	STM32F051R8T6TR	STM32F091RCT6TR
STM8L151C8T7	STM8L151R8T6TR	STM32F103C6T7A
STM32F103R8T6TR	STM32F078CBT6	STM32F401RBT6
STM32F051K4T6TR	STM32F103C8T6	STM32F101RCT6
STM32L152CBT6A	STM32F373C8T6	STM32F072RBT6TR
STM32F101RFT6	STM32F303R8T6	STM32F103RCT6TR
STM8S105S4T6CTR	STM32F303CBT6	STM32L486RGT6
STM32F030R8T6	STM32F303C8T6	STM32L051K8T7
STM32L053C6T7	STM32L051C8T3	STM32F373RBT6
STM8S207S8T6C	STM32F401RBT6TR	STM32F051R8T7
STM32F102C4T6ATR	STM32F411RCT6	STM32L476RET6
STM32L052R8T7	STM32F051C6T6	STM32F334K6T6
STM32L162RET6	STM32F303RCT7	STM32L052R6T6
STM32L152R6T6	STM32L100RCT6	STM32F102R4T6A
STM32F031C4T6	STM32F051K4T6	STM32F051K6T6
STM32F100R8T6BTR	STM32L162RDT6	STM32L152R6T6TR
STM32F303R6T6	STM32F030K6T6TR	STM32F446RCT6
STM32L151C8T6TR	STM32L051C8T6	STM32F103RGT6
STM32F100R4T6BTR	STM8S207SBT3C	STM8S105S6T6CTR
STM32L052R8T6	STM32L100R8T6	STM32F378RCT6
STM32F302RCT6	STM32L151RBT6TR	STM8L151C3T6
STM32F030C6T6TR	STM32L151C6T6A	STM32F101C6T6ATR
STM32F334R8T6	STM32F100CBT7B	STM32F031C6T6TR
STM32F302RCT7	STM32F031C6T6	STM32L151RDT7
STM32F101C8T6	STM32L052K8T6D	STM32L162RDT6TR
STM32F373CCT6	STM32L152RCT6	STM32F302C8T7
STM32F373R8T6	STM32F373C8T6TR	STM32F042K6T6
STM32F100C8T7B	STM32F051K8T6TR	STM32F303RET6TR
STM32F302CBT6	STM32F303K8T6	STM32F103R8T7
STM32L151RBT6ATR	STM8S105S6T3C	STM32L100R8T6TR



Public Products List

STM32L152R8T6A	STM32F058R8T6	STM32L151CCT6J
STM32F301R8T6	STM32L151RBT6	STM32F051R6T6
STM32L100RBT6	STM32L152C8T6	STM32L100RBT6ATR
STM32L100RCT6TR	STM32F334R8T7	STM32F071RBT6
STM32L151RDT6	STM32F072C8T6TR	STM8S903K3T3CTR
STM32F042K6T7	STM32F078RBT6	STM32F051R6T7TR
STM32F303K6T6	STM32F051R4T6TR	STM32F070CBT6
STM32F334C6T7	STM32L053C8T6D	STM32L051C6T6
STM32F302RBT7	STM8S208S6T6C	STM32L053C8T7
STM32F358RCT6	STM8L151C8T3	STM32F302R8T6TR
STM32L152CBT6	STM32L151C8T6	STM8L101K3T3
STM8L151C8T6TR	STM8S207S8T6CTR	STM32F302RDT6TR
STM32L053R8T6	STM32F030C6T6	STM32F030CCT6
STM32F030RCT6	STM32F031K6T6	STM32F030R8T6TR
STM32L151R6T6A	STM32L152R6T6A	STM32F051K8T6
STM32F103RFT6JTR	STM32F102C6T6ATR	STM32F302C8T6
STM32F101R6T6ATR	STM32F072CBT6TR	STM8S207SBT6C
STM32F031C4T6TR	STM32F070CBT6TR	STM32F051C8T6TR
STM32L062K8T6	STM32F100RDT6B	STM32F098RCT6
STM32L100RBT6A	STM8L162R8T6	STM32F301C6T6
STM32F301R6T6	STM32L051R8T7	STM32F071CBT6
STM32F102C6T6A	STM32F091CCT7	STM32L151R6T6
STM32F051C6T7	STM32L063C8T6	STM8L151C3T3
STM32L152C6T6A	STM32F303CCT6TR	STM32F091CBT6
STM32F091CCT6J	STM32L151R8T6	STM32F303CCT6
STM32F401RCT6TR	STM32F100R6T6BTR	STM32F334C6T6
STM32F302CCT6	STM32F334R6T6	STM8L151R8T6
STM32L152C8T6A	STM32F302R8T6	STM32F303RBT6
STM32F100C4T6B	STM32F302CBT7	STM32L151C6T6TR
STM32L151CCT6	STM32F100CBT7BTR	STM8S103K3T6C
STM32F103C6T7ATR	STM32F100C6T7B	STM8L152R6T6TR
STM32F098CCT6	STM32F401RCT7	STM32F071RBT6TR
STM32L052K8T7	STM32L151RET6TR	STM32L162RCT6A
STM32L151RCT6	STM32F071CBT7	STM32F302RBT6TR
STM32F101RGT6	STM8L152C8T6TR	STM32F103R6T7A
STM32F051C8T7	STM32F103RFT6TR	STM32F358CCT6
STM32F091RCT7	STM32F101R6T6A	STM32L152R8T6
STM32F042C6T6	STM32F303RCT6TR	STM32F303RBT7
STM32F101RGT6TR	STM32L151RBT7A	STM32F302RET6
STM32L151RCT6A	STM32L151CBT6A	STM32F100RET6B
STM32L051K6T6	STM32F100C8T7BTR	STM32L052C8T6
STM32L151CBT6D	STM32L053C8T6TR	STM8S003K3T6CTR
STM32L052C8T7	STM32F446RET6	STM32F100RET6BTR
STM32F303C6T6	STM32L152C6T6	STM32L152RET6
STM32L051C6T6TR	STM32F100C4T7B	STM32F091CCT6
STM32F303RDT6	STM32L053R8T3	STM8L052R8T6
STM32F411RET6	STM32F103RGT6TR	STM32F318C8T6
STM32L152RBT6	STM32F302RBT6	STM32L151C6T6
STM32F302R8T7	STM32L100RBT6TR	STM32F334R8T6TR
STM8L152R8T3	STM32F103RGT7	



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**PRODUCT/PROCESS
CHANGE NOTIFICATION
Detailed description**

**Amkor ATP (Philippines) additional back-end source
for STM8 and STM32 non-automotive products in
LQFP 7x7 & 10x10 packages**

MMS - Microcontrollers Division (MCD)

Dear Customer,

In order to sustain the strong demand on STM8 and STM32 devices and provide a better service to our customers, ST Microcontrollers Division will add ATP (Philippines) back-end source for non-automotive STM8 and STM32 family products in LQFP 7x7 and LQFP 10x10 packages.

This line is already qualified and running production in volume.

What are the changes?

Changes are described in the below table:

	Existing manufacturing sites			Added manufacturing site
Assembly site	STATS ChipPAC Shanghai China	ST Muar Malaysia	ST Muar Malaysia	Amkor ATP Philippines
Leadframe	Copper Frame Spot Ag	Pre Plated Frame	Copper Frame Spot Ag	Copper Frame Spot Ag
Leadfinishing	Pure Tin (e3)	Ni Pd Au (e4)	Pure Tin (e3)	Pure Tin (e3)
Resin	Sumitomo G700E	Sumitomo : - G700LS for LQFP 7x7 - G700F for LQFP 10x10	Sumitomo G700LS for LQFP 10x10	Sumitomo G631HQ
Glue	Ablestik 3230	Hitachi EN4900	Hitachi EN4900GC	Evertch AP4200
Test site	STATS ChipPAC Shanghai China	ST Muar Malaysia	ST Muar Malaysia	Amkor ATP Philippines

How & when will the change be qualified?

This change will be qualified using the standard STMicroelectronics Corporate Procedures for Quality and Reliability, in full compliancy with the JESD-47 international standard. You can find in attached Qualification Report RERMCD1515 and Qualification Plan RERMCD1313.

Example:

Commercial Product STM32F030K6T6 listed in Group 2 below and so, qualification plan is report RERMCD1515 in attached, qualification report should be available week 49 2015, and implementation date should be week 01 2016.

	Qualification		Implementation
Products listed in Groups below	Document	Qualification Report date	Implementation date
Group 1	Qual report RERMCD1313	Now, in attached	Week 39 2015
Group 2	Qual plan RERMCD1515	Week 49 2015	Week 01 2016

How to order samples?

For all sample request linked to this PCN, please:

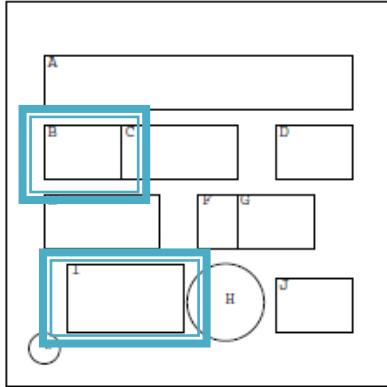
- request sample through Notice tool.
- place **non standard** sample order using the following field in your system.
- insert "PCN 9108" into the remarks of your order.

The screenshot shows the 'SO | NPO Sample' application window. The 'Header' section contains fields for SO No., Customer, Carrier Code, Price Policy, Currency, Issuing Date, and Ord Val (0.0000). Below this is a table with columns: Sch 1 Nr, PO 1 Nr, Finished Good, Comm Qty, Open Qty, Plant Open Qty, Req'd Qty, Unit Price, RD, CD, EDD, and St. The 'PO Item' section shows PO Item, Comm Prod, Qty (0), RD (06-Jan-15), Unit Price (0.0000), and Final Cust. The 'Cust Part Nr' section includes Finished Good, Partial Ship (01), Price Pol, Status (01), and Canc. The 'Notes' section contains TAM K Pieces (0), Our Share (%), and Sample Type (Sample Non Std Type, highlighted with a red box). The 'Project Name' section includes Closing Date and Closing Type. At the bottom, there are sections for 'Regional Sheet' and 'Lab Sheet'.

How can the change be seen?

Traceability of the change is ensured by ST internal tools.

The marking instruction indicated on the products is changing from:



B : Assembly plant change from

- STATS ChipPAC Shanghai China
- ST Muar Malaysia

GH
9H

to

- Amkor Philippines

7B

I : Country Of Origin change from

- STATS ChipPAC Shanghai China
- ST Muar Malaysia

CHN
MYS

to

- Amkor Philippines

PHL

We remain available to discuss any concern that you may have regarding this Product Change Notification.

With our sincere regards.

Michel Buffa

Microcontroller Division General Manager

List of Commercial Products

Commercial Product	Group
STM32F030C6T6	Group 2
STM32F030C6T6TR	Group 2
STM32F030C8T6	Group 2
STM32F030C8T6TR	Group 2
STM32F030CCT6	Group 1
STM32F030K6T6	Group 2
STM32F030K6T6TR	Group 2
STM32F030R8T6	Group 2
STM32F030R8T6TR	Group 2
STM32F030RCT6	Group 1
STM32F031C4T6	Group 2
STM32F031C4T6TR	Group 2
STM32F031C6T6	Group 2
STM32F031C6T6BOO	Group 2
STM32F031C6T6TR	Group 2
STM32F031C6T7	Group 2
STM32F031K6T6	Group 2
STM32F031K6T7	Group 2
STM32F038C4T6	Group 2
STM32F038C6T6	Group 2
STM32F038C6T7	Group 2
STM32F042C4T6	Group 2
STM32F042C6T6	Group 2
STM32F042C6T6TR	Group 2
STM32F042K4T6	Group 2
STM32F042K6T6	Group 2
STM32F042K6T7	Group 2
STM32F051C4T6	Group 2
STM32F051C6T6	Group 2
STM32F051C6T6TR	Group 2
STM32F051C6T7	Group 2
STM32F051C8T6	Group 2
STM32F051C8T6TR	Group 2
STM32F051C8T7	Group 2
STM32F051C8T7TR	Group 2
STM32F051K4T6	Group 2
STM32F051K4T6TR	Group 2
STM32F051K6T6	Group 2
STM32F051K6T6TR	Group 2
STM32F051K6T7	Group 2
STM32F051K6T7TR	Group 2
STM32F051K8T6	Group 2
STM32F051K8T6TR	Group 2
STM32F051K8T7	Group 2
STM32F051R4T6	Group 2
STM32F051R4T6TR	Group 2
STM32F051R6T6	Group 2
STM32F051R6T6TR	Group 2
STM32F051R6T7TR	Group 2
STM32F051R8T6	Group 2

STM32F051R8T6ENG	Group 2
STM32F051R8T6TR	Group 2
STM32F051R8T7	Group 2
STM32F051R8T7TR	Group 2
STM32F058R8T6	Group 2
STM32F070C6T6	Group 2
STM32F070CBT6	Group 1
STM32F070CBT6TR	Group 1
STM32F070RBT6	Group 1
STM32F071C8T6	Group 1
STM32F071CBT6	Group 1
STM32F071CBT6TR	Group 1
STM32F071CBT7	Group 1
STM32F071RBT6	Group 1
STM32F071RBT6TR	Group 1
STM32F071RBT7TR	Group 1
STM32F072C8T6	Group 1
STM32F072C8T6TR	Group 1
STM32F072CBT6	Group 1
STM32F072CBT6TR	Group 1
STM32F072CBT7	Group 1
STM32F072R8T6	Group 1
STM32F072R8T6TR	Group 1
STM32F072RBT6	Group 1
STM32F072RBT6TR	Group 1
STM32F078CBT6	Group 1
STM32F078RBT6	Group 1
STM32F091CBT6	Group 1
STM32F091CCT6	Group 1
STM32F091CCT6J	Group 1
STM32F091CCT7	Group 1
STM32F091RBT6	Group 1
STM32F091RCT6	Group 1
STM32F091RCT6TR	Group 1
STM32F091RCT6U	Group 1
STM32F091RCT7	Group 1
STM32F098CCT6	Group 1
STM32F098RCT6	Group 1
STM32F100C4T6B	Group 1
STM32F100C4T6BTR	Group 1
STM32F100C4T7B	Group 1
STM32F100C6T6B	Group 1
STM32F100C6T6BTR	Group 1
STM32F100C6T7B	Group 1
STM32F100C8T6B	Group 1
STM32F100C8T6BTR	Group 1
STM32F100C8T7B	Group 1
STM32F100C8T7BTR	Group 1
STM32F100CBT6B	Group 1
STM32F100CBT6BTR	Group 1
STM32F100CBT7B	Group 1
STM32F100CBT7BTR	Group 1

STM32F100R4T6B	Group 1
STM32F100R4T6BTR	Group 1
STM32F100R6T6B	Group 1
STM32F100R6T6BTR	Group 1
STM32F100R8T6B	Group 1
STM32F100R8T6BTR	Group 1
STM32F100R8T7B	Group 1
STM32F100RBT6B	Group 1
STM32F100RBT6BTR	Group 1
STM32F100RCT6	Group 1
STM32F100RCT6B	Group 1
STM32F100RCT6BTR	Group 1
STM32F100RCT6TR	Group 1
STM32F100RDT6B	Group 1
STM32F100RDT6BTR	Group 1
STM32F100RET6B	Group 1
STM32F100RET6BTR	Group 1
STM32F101C4T6A	Group 1
STM32F101C6T6A	Group 1
STM32F101C6T6ATR	Group 1
STM32F101C8GAL	Group 1
STM32F101C8T6	Group 1
STM32F101C8T6TR	Group 1
STM32F101CBT6	Group 1
STM32F101CBT6TR	Group 1
STM32F101R4T6A	Group 1
STM32F101R6T6A	Group 1
STM32F101R6T6ATR	Group 1
STM32F101R8T6	Group 1
STM32F101R8T6TR	Group 1
STM32F101RBT6	Group 1
STM32F101RBT6TR	Group 1
STM32F101RCT6	Group 1
STM32F101RCT6TR	Group 1
STM32F101RDT6	Group 1
STM32F101RDT6TR	Group 1
STM32F101RET6	Group 1
STM32F101RFT6	Group 2
STM32F101RFT6TR	Group 2
STM32F101RGT6	Group 2
STM32F101RGT6TR	Group 2
STM32F102C4T6A	Group 1
STM32F102C4T6ATR	Group 1
STM32F102C6T6A	Group 1
STM32F102C6T6ATR	Group 1
STM32F102C8T6	Group 1
STM32F102C8T6TR	Group 1
STM32F102CBT6	Group 1
STM32F102CBT6TR	Group 1
STM32F102R4T6A	Group 1
STM32F102R6T6A	Group 1
STM32F102R8T6	Group 1

STM32F102RBT6	Group 1
STM32F102RBT6TR	Group 1
STM32F102RCT6	Group 1
STM32F103C4T6A	Group 1
STM32F103C6T6A	Group 1
STM32F103C6T6ATR	Group 1
STM32F103C6T7A	Group 1
STM32F103C6T7ATR	Group 1
STM32F103C8T6	Group 1
STM32F103C8T6TR	Group 1
STM32F103C8T7	Group 1
STM32F103C8T7TR	Group 1
STM32F103CBT6	Group 1
STM32F103CBT6TR	Group 1
STM32F103CBT7	Group 1
STM32F103CBT7TR	Group 1
STM32F103R4T6A	Group 1
STM32F103R6T6A	Group 1
STM32F103R6T6ATR	Group 1
STM32F103R6T7A	Group 1
STM32F103R8T6	Group 1
STM32F103R8T6TR	Group 1
STM32F103R8T7	Group 1
STM32F103R8T7TR	Group 1
STM32F103RBT6	Group 1
STM32F103RBT6TR	Group 1
STM32F103RBT7	Group 1
STM32F103RBT7TR	Group 1
STM32F103RCT6	Group 1
STM32F103RCT6TR	Group 1
STM32F103RCT7	Group 1
STM32F103RCUVWTR	Group 1
STM32F103RDT6	Group 1
STM32F103RDT6TR	Group 1
STM32F103RET6	Group 1
STM32F103RET6TR	Group 1
STM32F103RET7	Group 1
STM32F103RFT6	Group 2
STM32F103RFT6JTR	Group 2
STM32F103RFT6TR	Group 2
STM32F103RGT6	Group 2
STM32F103RGT6TR	Group 2
STM32F103RGT7	Group 2
STM32F301C4T6	Group 1
STM32F301C6T6	Group 1
STM32F301C8T6	Group 1
STM32F301R6T6	Group 1
STM32F301R8T6	Group 1
STM32F302C4T6	Group 1
STM32F302C6T6	Group 1
STM32F302C8T6	Group 1
STM32F302C8T7	Group 1

STM32F302CBT6	Group 1
STM32F302CBT7	Group 1
STM32F302CCT6	Group 1
STM32F302R6T6	Group 1
STM32F302R8T6	Group 1
STM32F302R8T6TR	Group 1
STM32F302R8T7	Group 1
STM32F302RBT6	Group 1
STM32F302RBT6TR	Group 1
STM32F302RBT7	Group 1
STM32F302RCT6	Group 1
STM32F302RCT6TR	Group 1
STM32F302RCT7	Group 1
STM32F302RDT6	Group 1
STM32F302RDT6TR	Group 1
STM32F302RET6	Group 1
STM32F303C6T6	Group 1
STM32F303C8T6	Group 1
STM32F303CBT6	Group 1
STM32F303CBT6TR	Group 1
STM32F303CBT7	Group 1
STM32F303CCT6	Group 1
STM32F303CCT6TR	Group 1
STM32F303CCT7	Group 1
STM32F303K6T6	Group 2
STM32F303K8T6	Group 2
STM32F303R6T6	Group 1
STM32F303R8T6	Group 1
STM32F303RBT6	Group 1
STM32F303RBT6TR	Group 1
STM32F303RBT7	Group 1
STM32F303RBT7TR	Group 1
STM32F303RCT6	Group 1
STM32F303RCT6TR	Group 1
STM32F303RCT7	Group 1
STM32F303RDT6	Group 1
STM32F303RET6	Group 1
STM32F303RET6TR	Group 1
STM32F303RET7	Group 1
STM32F318C8T6	Group 1
STM32F318R8T6	Group 1
STM32F328C8T6	Group 1
STM32F328K8T6	Group 2
STM32F328R8T6	Group 1
STM32F334C4T6	Group 1
STM32F334C6T6	Group 1
STM32F334C6T7	Group 1
STM32F334C8T6	Group 1
STM32F334C8T7	Group 1
STM32F334K4T6	Group 2
STM32F334K6T6	Group 2
STM32F334K8T6	Group 2

STM32F334K8T7	Group 2
STM32F334R6T6	Group 1
STM32F334R8T6	Group 1
STM32F334R8T6TR	Group 1
STM32F334R8T7	Group 1
STM32F358CCT6	Group 1
STM32F358RCT6	Group 1
STM32F373C8T6	Group 1
STM32F373C8T6TR	Group 1
STM32F373CBT6	Group 1
STM32F373CCT6	Group 1
STM32F373CCT7	Group 1
STM32F373R8T6	Group 1
STM32F373R8T6TR	Group 1
STM32F373RBT6	Group 1
STM32F373RCT6	Group 1
STM32F373RCT6TR	Group 1
STM32F378CCT6	Group 1
STM32F378RCT6	Group 1
STM32F398RET6	Group 1
STM32F401RBT6	Group 1
STM32F401RBT6TR	Group 1
STM32F401RCT6	Group 1
STM32F401RCT6TR	Group 1
STM32F401RCT6U	Group 1
STM32F401RCT7	Group 1
STM32F401RDT6	Group 2
STM32F401RET6	Group 2
STM32F401RET6U	Group 2
STM32F411RCT6	Group 2
STM32F411RET6	Group 2
STM32F411RET6U	Group 2
STM32F446RCT6	Group 1
STM32F446RCT7TR	Group 1
STM32F446RET6	Group 1
STM32F446RET6U	Group 1
STM32FEBKC6T6A	Group 1
STM32FEBKC6T6ATR	Group 1
STM32L011K4T6	Group 2
STM32L031C6T7	Group 2
STM32L031K6T7	Group 2
STM32L051C6T6	Group 2
STM32L051C6T6TR	Group 2
STM32L051C8T3	Group 2
STM32L051C8T6	Group 2
STM32L051C8T6TR	Group 2
STM32L051C8T7	Group 2
STM32L051K6T6	Group 2
STM32L051K8T6	Group 2
STM32L051K8T7	Group 2
STM32L051R6T6	Group 2
STM32L051R8T6	Group 2

STM32L051R8T7	Group 2
STM32L052C6T6	Group 2
STM32L052C8T6	Group 2
STM32L052C8T7	Group 2
STM32L052K6T6	Group 2
STM32L052K8T6	Group 2
STM32L052K8T6D	Group 2
STM32L052K8T7	Group 2
STM32L052R6T6	Group 2
STM32L052R8T6	Group 2
STM32L052R8T7	Group 2
STM32L053C6T6	Group 2
STM32L053C6T7	Group 2
STM32L053C8T6	Group 2
STM32L053C8T6D	Group 2
STM32L053C8T6TR	Group 2
STM32L053C8T7	Group 2
STM32L053R6T6	Group 2
STM32L053R8T3	Group 2
STM32L053R8T6	Group 2
STM32L053R8T6D	Group 2
STM32L053R8T7	Group 2
STM32L062K8T6	Group 2
STM32L063C8T6	Group 2
STM32L063R8T6	Group 2
STM32L071CZT6	Group 2
STM32L071CZT7	Group 2
STM32L071KZT6	Group 2
STM32L073CZT6	Group 2
STM32L073KZT6	Group 2
STM32L073RZT6	Group 2
STM32L073RZT6U	Group 2
STM32L081KZT6	Group 2
STM32L083CZT6	Group 2
STM32L083RZT6	Group 2
STM32L100R8T6	Group 1
STM32L100R8T6A	Group 2
STM32L100R8T6TR	Group 1
STM32L100RBT6	Group 1
STM32L100RBT6A	Group 2
STM32L100RBT6ATR	Group 2
STM32L100RBT6TR	Group 1
STM32L100RCT6	Group 2
STM32L100RCT6TR	Group 2
STM32L151C6T6	Group 1
STM32L151C6T6A	Group 2
STM32L151C6T6TR	Group 1
STM32L151C8T6	Group 1
STM32L151C8T6A	Group 2
STM32L151C8T6TR	Group 1
STM32L151CBT6	Group 1
STM32L151CBT6A	Group 2

STM32L151CBT6D	Group 2
STM32L151CBT6TR	Group 1
STM32L151CCT6	Group 2
STM32L151CCT6J	Group 2
STM32L151CCT6TR	Group 2
STM32L151R6T6	Group 1
STM32L151R6T6A	Group 2
STM32L151R6T6TR	Group 1
STM32L151R8T6	Group 1
STM32L151R8T6A	Group 2
STM32L151RBT6	Group 1
STM32L151RBT6A	Group 2
STM32L151RBT6ATR	Group 2
STM32L151RBT6D	Group 2
STM32L151RBT6TR	Group 1
STM32L151RBT7A	Group 2
STM32L151RCT6	Group 2
STM32L151RCT6A	Group 1
STM32L151RCT6ATR	Group 1
STM32L151RDT6	Group 1
STM32L151RDT6TR	Group 1
STM32L151RDT7	Group 1
STM32L151RET6	Group 2
STM32L151RET6TR	Group 2
STM32L152C6T6	Group 1
STM32L152C6T6A	Group 2
STM32L152C8T6	Group 1
STM32L152C8T6A	Group 2
STM32L152CBT6	Group 1
STM32L152CBT6A	Group 2
STM32L152CCT6	Group 2
STM32L152CCT6D	Group 2
STM32L152R6T6	Group 1
STM32L152R6T6A	Group 2
STM32L152R6T6TR	Group 1
STM32L152R8T6	Group 1
STM32L152R8T6A	Group 2
STM32L152R8T6TR	Group 1
STM32L152RBT6	Group 1
STM32L152RBT6A	Group 2
STM32L152RCT6	Group 2
STM32L152RCT6A	Group 1
STM32L152RCT6D	Group 2
STM32L152RDT6	Group 1
STM32L152RET6	Group 2
STM32L162RCT6	Group 2
STM32L162RCT6A	Group 1
STM32L162RDT6	Group 1
STM32L162RDT6TR	Group 1
STM32L162RET6	Group 2
STM32L476RCT6	Group 2
STM32L476RET6	Group 2

STM32L476RGT6	Group 2
STM32L476RGT6U	Group 2
STM32L486RGT6	Group 2
STM32LP151NTOTR	Group 1
STM32P051C8JAETR	Group 2
STM32P072RBMBYTR	Group 1
STM32P101CBMBD	Group 1
STM32P101CBMBDTR	Group 1
STM32P101RCMBR	Group 1
STM32P101RCMBRTR	Group 1
STM32P101RCMCF	Group 1
STM32P101RFMBP	Group 2
STM32P102C8MAPTR	Group 1
STM32P103C8MBCTR	Group 1
STM32P103CBMAZTR	Group 1
STM32P103MAYATR	Group 1
STM32P103RFMBB	Group 2
STM8L052R8T6	Group 1
STM8L052R8T6TR	Group 1
STM8L101K3T3	Group 2
STM8L101K3T6	Group 2
STM8L151C2T6	Group 1
STM8L151C3T3	Group 1
STM8L151C3T6	Group 1
STM8L151C8T3	Group 1
STM8L151C8T6	Group 1
STM8L151C8T6TR	Group 1
STM8L151C8T7	Group 1
STM8L151R6T6	Group 1
STM8L151R6T6TR	Group 1
STM8L151R8T6	Group 1
STM8L151R8T6TR	Group 1
STM8L152C8T6	Group 1
STM8L152C8T6TR	Group 1
STM8L152R6T6	Group 1
STM8L152R6T6TR	Group 1
STM8L152R8T3	Group 1
STM8L152R8T6	Group 1
STM8L162R8T6	Group 1
STM8LP151T6MCETR	Group 1
STM8LP151T6MEJ	Group 1
STM8LP151T6MEJTR	Group 1
STM8S003K3T6C	Group 2
STM8S003K3T6CTR	Group 2
STM8S103K3T3C	Group 2
STM8S103K3T3CTR	Group 2
STM8S103K3T6C	Group 2
STM8S103K3T6CTR	Group 2
STM8S105S4T6C	Group 2
STM8S105S4T6CTR	Group 2
STM8S105S6T3C	Group 2
STM8S105S6T6C	Group 2

STM8S105S6T6CTR	Group 2
STM8S207S6T3C	Group 2
STM8S207S6T3CTR	Group 2
STM8S207S6T6C	Group 2
STM8S207S6T6CTR	Group 2
STM8S207S8T3C	Group 2
STM8S207S8T3CTR	Group 2
STM8S207S8T6C	Group 2
STM8S207S8T6CTR	Group 2
STM8S207SBT3C	Group 2
STM8S207SBT6C	Group 2
STM8S208S6T3C	Group 2
STM8S208S6T6C	Group 2
STM8S903K3T3C	Group 2
STM8S903K3T3CTR	Group 2
STM8S903K3T6C	Group 2
STM8S903K3T6CTR	Group 2
STM8SP103K3MAZTR	Group 2
STM8SP103K3MBZTR	Group 2

