


PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data

1.1 Company		STMicroelectronics International N.V
1.2 PCN No.	APG/15/9350	
1.3 Title of PCN	VIPower M0-7: Product Family Optimization	
1.4 Product Category	VIPower M0-7 Product Family	
1.5 Issue date	2015-08-10	

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	Riccardo NICOLOSO
2.1.2 Marketing Manager	Nicola LIPORACE
2.1.3 Quality Manager	Francesco MINERVA

3. Change

3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	(Not Defined)	ST Catania (Front End)

4. Description of change

	Old	New
4.1 Description	Current VIPower M0-7 Family Products	New Optimized VIPower M0-7 Family Products
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact	

5. Reason / motivation for change

5.1 Motivation	Product optimization and portfolio streamlining
5.2 Customer Benefit	SERVICE IMPROVEMENT

6. Marking of parts / traceability of change

6.1 Description	New ordering code and new marking
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7. Timing / schedule

7.1 Date of qualification results	2015-07-29
7.2 Intended start of delivery	2015-07-29
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation

8.1 Description	Qualification info.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2015-08-10

9. Attachments (additional documentations)

9350PpPrdtLst.pdf
Qualification info.pdf
5W and 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
	VN7010AJTR-E	
	VN7016AJTR-E	
	VN7020AJTR-E	
	VN7040AJTR-E	
	VN7040ASTR-E	
	VN7050AJTR-E	
	VN7050ASTR-E	
	VN7140AJTR-E	
	VN7140ASTR-E	
	VND7020AJTR-E	
	VND7030AJTR-E	
	VND7040AJTR-E	
	VND7050AJTR-E	
	VND7140AJTR-E	
	VNQ7140AJTR-E	

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Public Products List

PCN Title : VIPower M0-7: Product Family Optimization

PCN Reference : APG/15/9350

PCN Created on : 29-Jul-2015

Subject : Public Products List

Dear Customer,

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

VND7030AJTR	VNQ7050AJTR-E	VNQ7040AY-E
VN7010AJTR	VNQ7050AJ-E	VN7020AJTR
VNQ7140AJ-E	VN7050ASTR	VND7050AJ12TR
VNQ7140AJTR-E	VN7040ASTR	VN7140AJTR
VN7040AJTR	VND7050AJTR	VND7012AY-E
VND7140AJTR	VND7040AJTR	VN7016AJTR
VND7020AJTR	VNQ7040AYTR-E	VND7012AYTR-E
VND7140AJ12TR	VN7140ASTR	



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VIPower M0-7: Product Family Optimization

WHAT:

Please be informed that we are going to streamline our product portfolio related to VIPower M0-7 family.

New Ordering Codes (Commercial Part-numbers) have been introduced for Optimized Product versions

WHY:

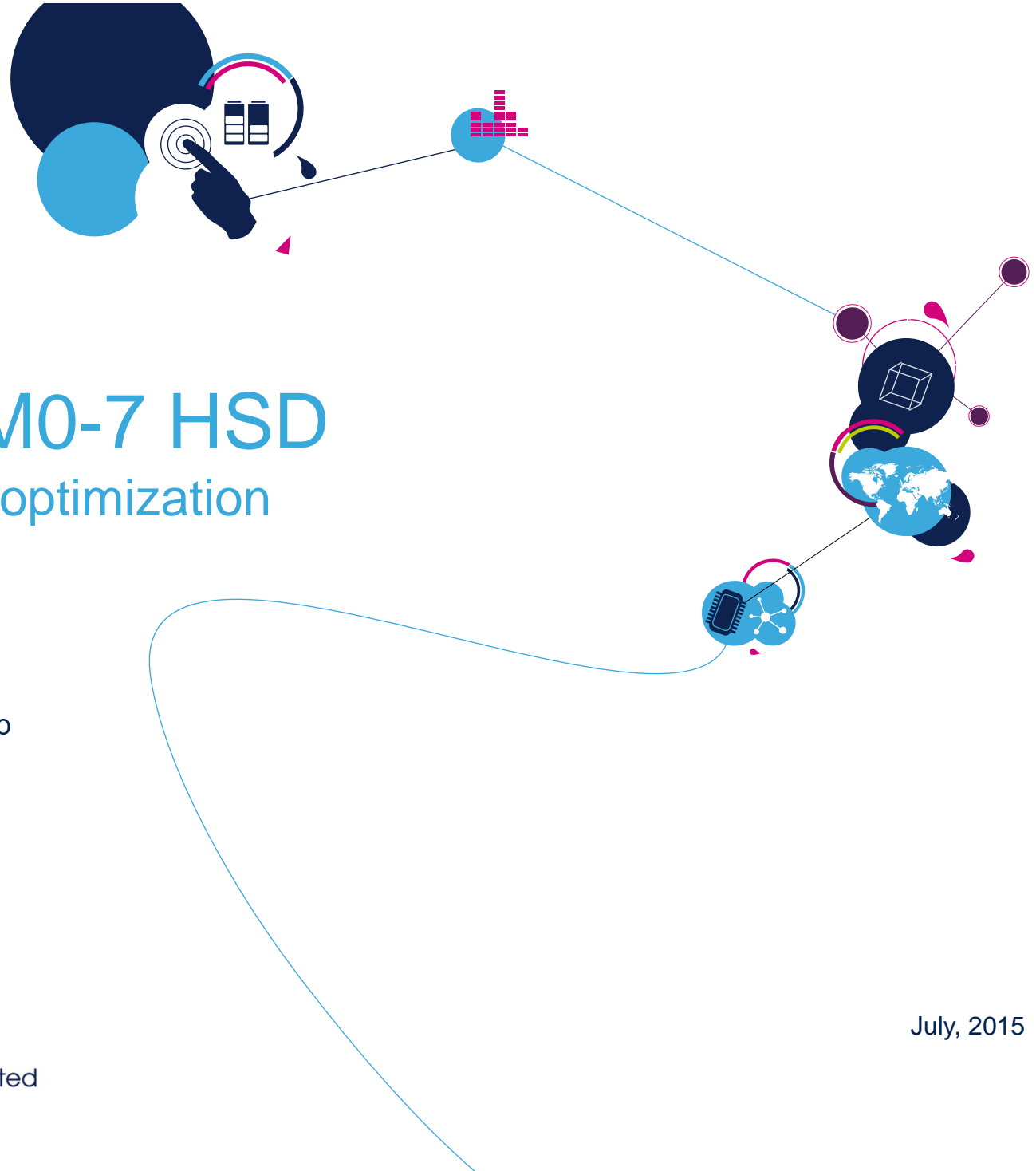
Service Improvement, product portfolio optimization and streamlining

HOW:

See enclosed presentation

WHEN:

Optimized Product versions are already available. We strongly recommend to replace old version with new for a better service



VIPower M0-7 HSD

Product family optimization

Product Marketing

Audio & Body Division

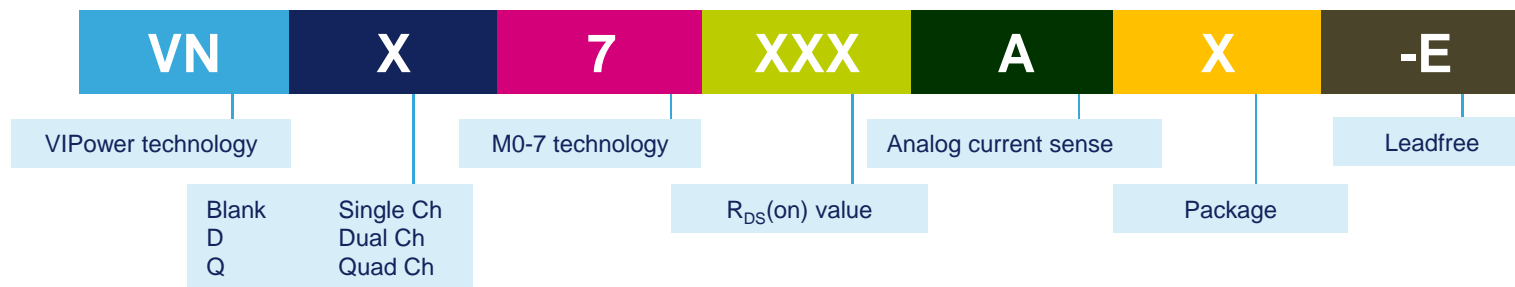
Automotive Product Group

VIpower M0-7

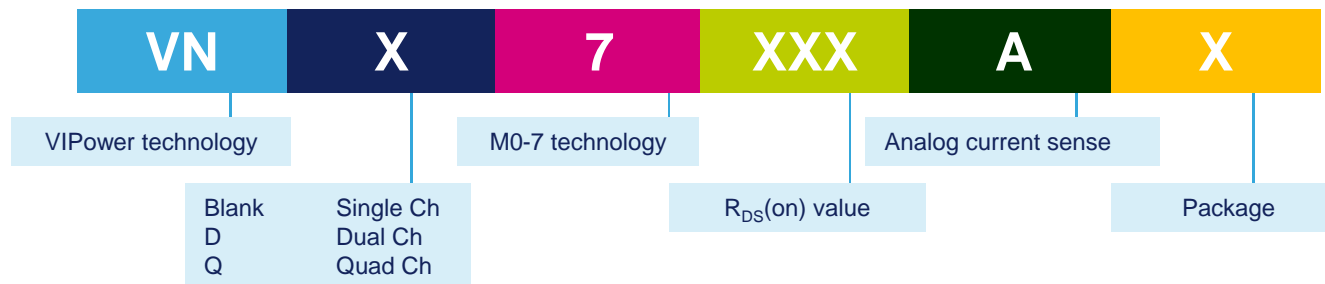
New Commercial Part-Numbers

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- Starting in Q3 2015 ST has launched on the market a new and optimized version of M0-7 products
- Current Ordering Codes:



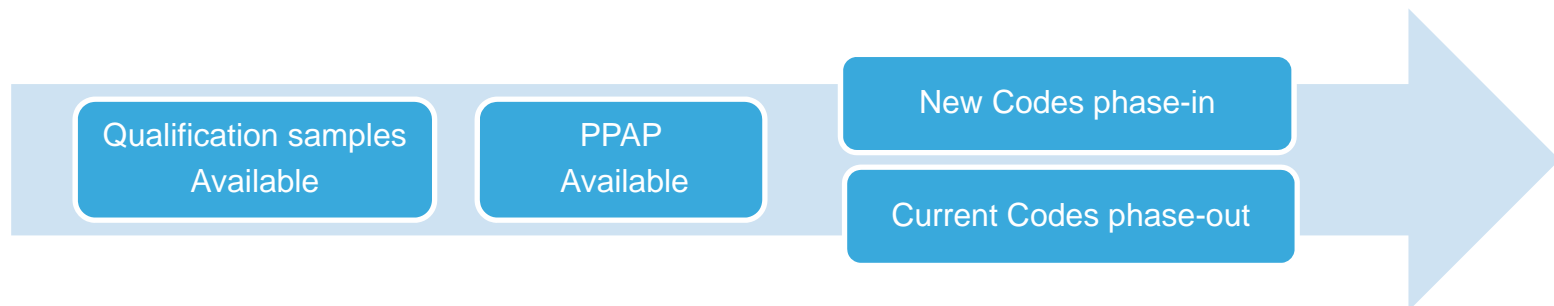
- New Ordering Codes (lead-free):



Introduction Strategy and Timing

M0-7 Optimized Family

- New Ordering Codes (Commercial Part-numbers) have been introduced for Optimized Product versions:
 - No changes in form, fit and functions (same product specification)
- Current Ordering Codes are now Not Recommended for New Designs (NRND)
- New Ordering Codes are the ones to be used for qualification and production in any new project
- Current Ordering Codes are strongly recommended to be replaced by New Ordering Codes in running projects taking advantage of better service.



VIpower M0-7

Optimized option for improved Service

- ST implemented a limited silicon re-layout in the current-sense block, achieving improved parametric yield rate associated to current-sense ratios (KLED, K0, K1, K2 and K3).
- Native dual source PowerSSO-16 assembly line: Bouskoura-Morocco and Shenzhen-China.

	Current Ordering Codes (e.g. VN7016AJTR-E)	New Ordering Codes (e.g. VN7016AJTR)
Silicon	-	Improved parametric yield rate
Assembly Strategy	PCN 9126 (PSSO-16 Shenzhen second site Activation)	Native dual source PowerSSO-16 assembly line
Datasheet	No differences (excluded p/n itself)	
Device Marking	Refer to next page for further details	
Product status	Qualified and in mass production	
Marketing Status	NRND (Not recommended for new design)	Active



Summary Table

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Current Ordering Code	New Ordering Code	New PN Full Production	ShenZhen Activation [PCN9126 included]	Current PN Marking	New PN Marking
VN7140ASTR-E	VN7140ASTR	YES		VN7140AS	VS7140A
VN7140AJTR-E	VN7140AJTR	YES	YES	VN7140A	VS7140A
VN7050ASTR-E	VN7050ASTR	YES		VN7050AS	VS7050A
VN7050AJTR-E	VN7050AJTR	YES	YES	VN7050A	VS7050A
VN7040ASTR-E	VN7040ASTR	YES		VN7040AS	VS7040A
VN7040AJTR-E	VN7040AJTR	YES	YES	VN7040A	VS7040A
VN7020AJTR-E	VN7020AJTR	YES	YES	VN7020A	VS7020A
VN7016AJTR-E	VN7016AJTR	YES		VN7016A	VS7016A
VN7010AJTR-E	VN7010AJTR	YES		VN7010A	VS7010A
VND7140AJTR-E	VND7140AJTR	YES	YES	D7140AJ	VD7140A
VND7050AJTR-E	VND7050AJTR	YES	YES	D7050AJ	VD7050A
VND7040AJTR-E	VND7040AJTR	YES	YES	D7040AJ	VD7040A
VND7030AJTR-E	VND7030AJTR	YES		D7030AJ	VD7030A
VND7020AJTR-E	VND7020AJTR	YES		D7020AJ	VD7020A
VND7012AYTR-E	VND7012AYTR	JAN 2016		VND7012AY	VD7012A
VNQ7140AJTR-E	VNQ7140AJTR	YES		Q7140AJ	VQ7140A
VNQ7050AJTR-E	VNQ7050AJTR	YES		Q7050AJ	VQ7050A
VNQ7040AYTR-E	VNQ7040AYTR	JAN 2016		VNQ7040AY	VQ7040A





VIpower M0-7: Product Family Optimization (PCN APG/15/9350)

According to Communication PCN APG/15/9350 related to the VIpower M0-7: Product Family Optimization please be informed that Qualification Reports, PPAPs or other evidences will be provided separately on request.