



## **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:**

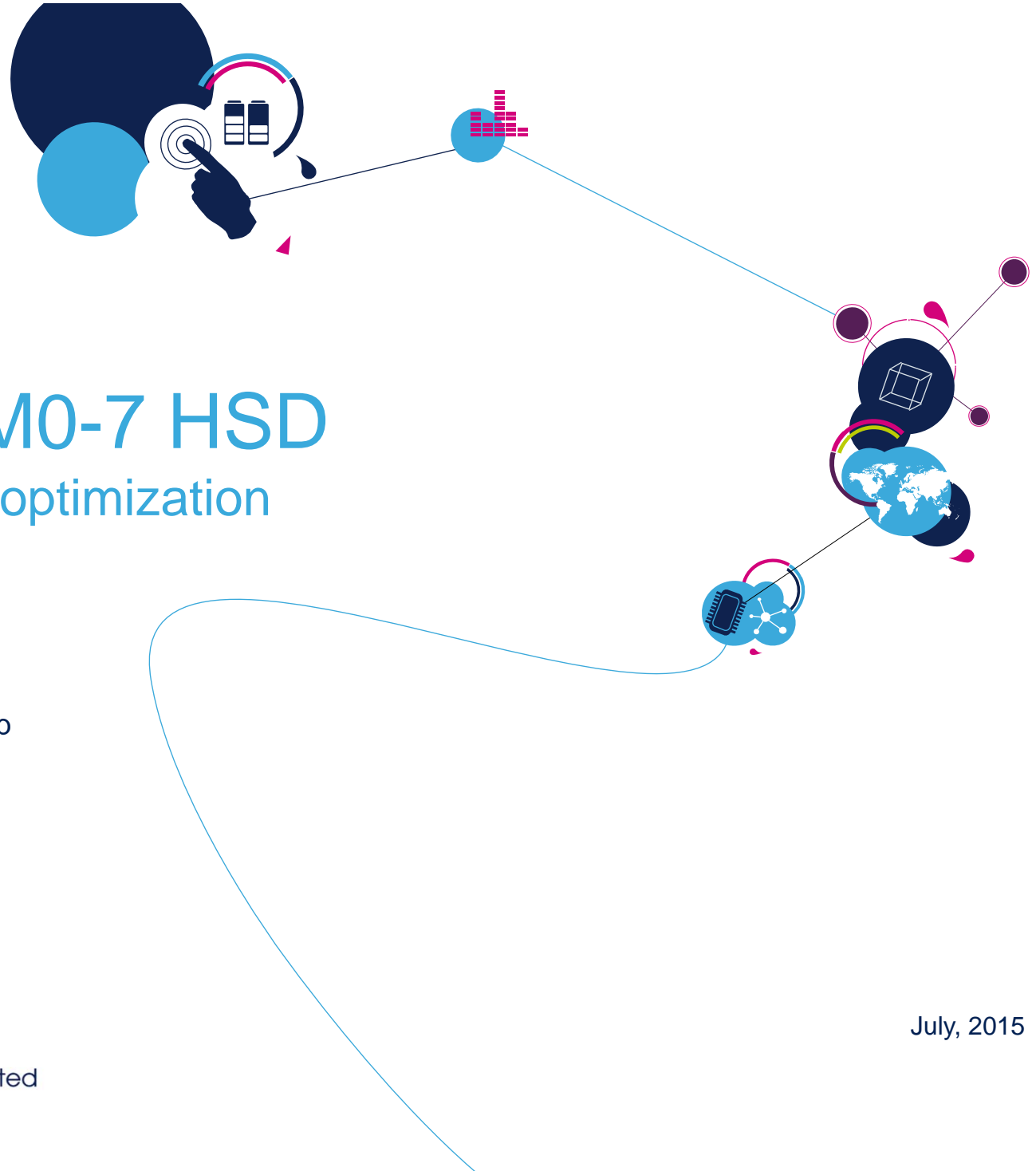
Service Improvement, product portfolio optimization and streamlining

**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

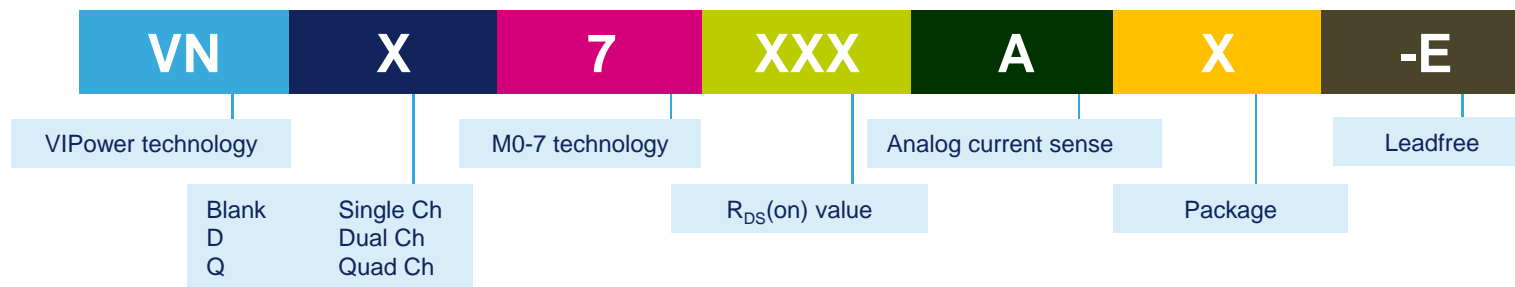
Automotive Product Group

# VIpower M0-7

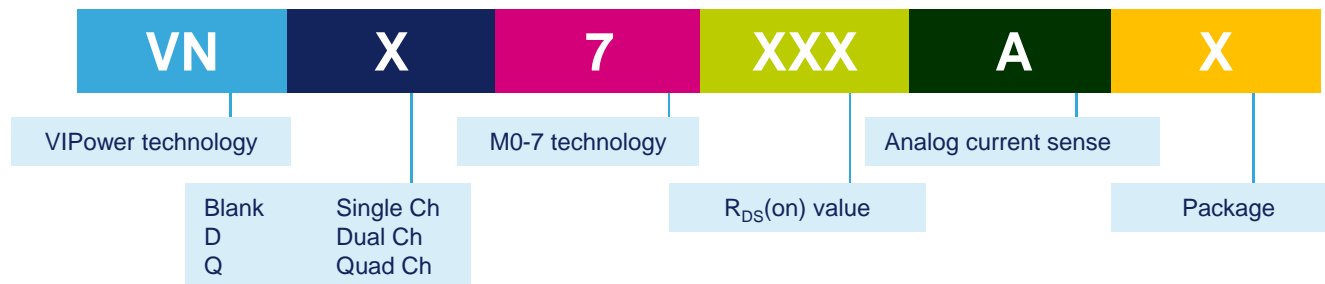
## New Commercial Part-Numbers

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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:



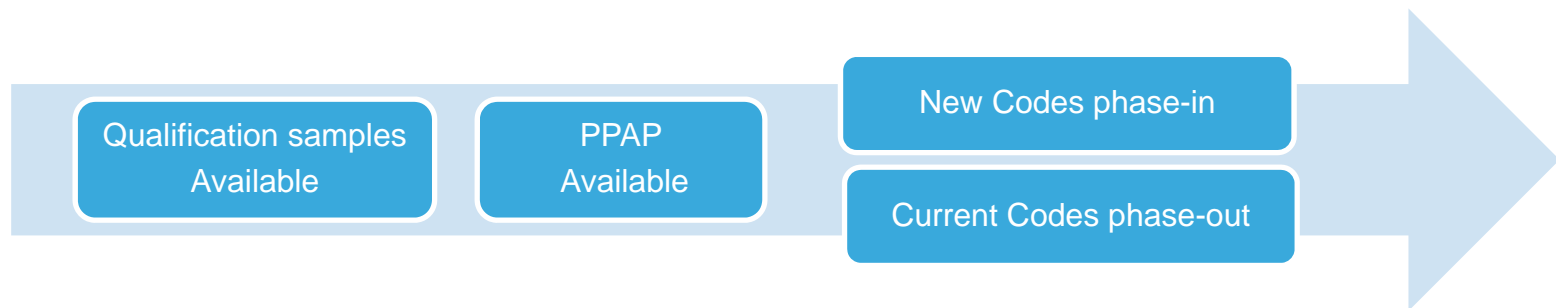
- New Ordering Codes (lead-free):



# 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)
<b>Silicon</b>	-	Improved parametric yield rate
<b>Assembly Strategy</b>	PCN 9126 (PSSO-16 Shenzhen second site Activation)	Native dual source PowerSSO-16 assembly line
<b>Datasheet</b>	No differences (excluded p/n itself)	
<b>Device Marking</b>	Refer to next page for further details	
<b>Product status</b>	Qualified and in mass production	
<b>Marketing Status</b>	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.



## 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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