

PCN Number:	20130403002	PCN Date:	07/25/2013
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Title: Die Revision PG3.0 for AM387x/DM812x/DM814x Devices

Customer Contact:	PCN Manager	Phone:	+1(214)480-6037	Dept:	Quality Services
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Proposed 1st Ship Date:	10/25/2013	Estimated Sample Availability:	Date provided at sample request.
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Change Type:

<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials
<input checked="" type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

This is a resend of a previous document to add Sitara Device table which was inadvertently left out.

The purpose of this notification is to introduce die revision PG3.0 for AM387x/DM812x/DM814x devices.

Affected devices are listed in Product Affected section.

Change from revision PG2.1 to revision PG3.0 will not require customer hardware or software upgrades.

Current Rev	New Rev	HW SW Change Requirements
PG2.1 (Rev B)	PG3.0 (Rev C)	Direct replacement, no requirements

As part of this change, the orderable part numbers will be changing. The table below shows part number mapping.

DaVinci Video Devices

P/N	Previous Rev (Map From)	PG 3.0 Part Number (Map To)	
	PG 2.1	Video Surveillance Applications	- Non-Video Surveillance - Broad Market Applications
DM8147	TMS320DM8147BCYE0	TMS320DM8147SCYE0	
	TMS320DM8147BCYE1	TMS320DM8147SCYE1	
	TMS320DM8147BCYE2	TMS320DM8147SCYE2	
DM8148	TMS320DM8148BCYE0	TMS320DM8148SCYE0	TMS320DM8148CCYE0
	TMS320DM8148BCYE1	TMS320DM8148SCYE1	TMS320DM8148CCYE1
	TMS320DM8148BCYE2	TMS320DM8148SCYE2	TMS320DM8148CCYE2

(additional product tables on next page)

Sitara Devices

	Previous Rev (Map From)	PG 3.0 Part Number (Map To)	
P/N	PG 2.1	Video Surveillance Applications	- Non-Video Surveillance - Broad Market Applications
AM3874	AM3874BCYE80	AM3874CCYE80	
	AM3874BCYEA80	AM3874CCYEA80	
AM3871	AM3871BCYE80	AM3871CCYE80	
	AM3871BCYE100	AM3871CCYE100	

Video Security Devices:

	Previous Rev (Map From)	PG 3.0 Part Number (Map To)	
P/N	PG 2.1	Video Surveillance Applications	- Non-Video Surveillance - Broad Market Applications
DM8127	TMS320DM8127BCYE0	TMS320DM8127SCYE0	
	TMS320DM8127BCYE1	TMS320DM8127SCYE1	
	TMS320DM8127BCYE2	TMS320DM8127SCYE2	
	TMS320DM8127BCYE3	TMS320DM8127SCYE3	
	TMS320DM8127BCYED0	TMS320DM8127SCYED0	
	TMS320DM8127BCYED1	TMS320DM8127SCYED1	
	TMS320DM8127BCYED2	TMS320DM8127SCYED2	
	TMS320DM8127BCYED3	TMS320DM8127SCYED3	
	TMS320DM8127BCYEA3	TMS320DM8127SCYEA3	

The table below lists PG3.0 design changes.

Issue	Resolution
SATA: Unable to Operate Both SATA and	Resolves Advisory 2.1.27
SATA: Gen3 Link Establishment Fails	Resolves Advisory 2.1.28
HDVPSS CCS Lockup	Resolves Advisory 2.1.51
HDVPSS: Connect/Disconnect Lockup	Resolves Advisory 2.1.59
DDR DMM: Starvation	Resolves Advisory 2.1.68
Input Receiver is Disabled	Resolves Advisory 2.1.87

No datasheet changes are required.

Availability of PG2.1:

- After release of the change and shipment of the remaining PG2.1 inventory, the PG2.1 (revB) part numbers listed in this document will become obsolete.
- We recommend that customers add the revision PG3.0 (revC) part numbers to their product bill of materials (BOM) and keep the revision PG2.1 part numbers on the BOM until the 2.1 inventory is depleted.

June 30th 2014 will be the last order entry date.

December 31st 2014 will be the last shipment date.

Reason for Change:

Advisory Resolution. PG3.0 is intended as the long term production device for all customers and applications.

Anticipated impact on Fit, Form, Function & Reliability (positive / negative):

No impact

Changes to product identification resulting from this PCN:

Die Rev designator will change as shown in table & sample label below:

Current	New
Die Rev [2P]	Die Rev [2P]
B	C

Sample product shipping label to indicate die rev location (**not actual product label**)

(1P) SN74LS07NSR
 (Q) 2000 (D) 0336
 (31T) LOT: 3959047MLA
 (4W) TKY (1T) 7523483SI2
 (P)
 (2P) **REV:** (V) 0033317
 (20L) CS0: SHE (21L) CCO:USA
 (22L) AS0: MLA (23L) ACO: MYS

Product Affected:

AM3871BCYE100	TMS320DM8127BCYE1	TMS320DM8127BCYED1	TMS320DM8147BCYE2
AM3871BCYE80	TMS320DM8127BCYE2	TMS320DM8127BCYED2	TMS320DM8148BCYE0
AM3874BCYE80	TMS320DM8127BCYE3	TMS320DM8127BCYED3	TMS320DM8148BCYE1
AM3874BCYEA80	TMS320DM8127BCYEA3	TMS320DM8147BCYE0	TMS320DM8148BCYE2
TMS320DM8127BCYE0	TMS320DM8127BCYED0	TMS320DM8147BCYE1	

Qualification Data: Approved 10/22/2012

This qualification has been developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

Qualification Device: XDM8148CYE

Wafer Fab Site:	UMC 12A	Assembly Site:	AMK-K4
Wafer Fab Process:	CMOS	# Pins-Designator, Family:	684-CYE, FCBGA
Die Revision:	C		

Qualification: Plan **Test Results**

Reliability Test	Conditions	Sample Size Lot#1
Electrical Characterization	–	Pass
EFR/HTOL	168 hours @ 125C	111/0
Latch-up	+/- 100 ma, 1.5 x Vcc @ 105C	6/0
ESD HBM	+/- 1000V	5/0
ESD CDM	+/- 250V	5/0

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or to your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com