



PRODUCT/PROCESS CHANGE NOTIFICATION

PCN AMS-AAS/13/7931
Dated 14 Jun 2013

Additional Assembly site for ST8024LCDR Smart Card Interface

Table 1. Change Implementation Schedule

Forecasted implementation date for change	07-Jun-2013
Forecasted availability date of samples for customer	07-Jun-2013
Forecasted date for STMicroelectronics change Qualification Plan results availability	07-Jun-2013
Estimated date of changed product first shipment	13-Sep-2013

Table 2. Change Identification

Product Identification (Product Family/Commercial Product)	ST8024LCDR
Type of change	Assembly additional location
Reason for change	To improve customer service
Description of the change	In order to improve service to ST Customers, standardize processes for the affected products and propose an halogen free source, ST is glad to announce an additional assembly and test & finishing site for our ST8024LCDR (Smart card interface in SO28 package from AAS Division) in Amkor (Subcontractor in Philippines). For sample requests, please make sure you enter a non-standard sample order with the PCN reference in the comment field.
Change Product Identification	Traceability code on outer box label (as described in the attached file)
Manufacturing Location(s)	

DOCUMENT APPROVAL

Name	Function
Grillo, Lionel	Marketing Manager
Onetti, Andrea Mario	Product Manager
Bugnard, Jean-Marc	Q.A. Manager

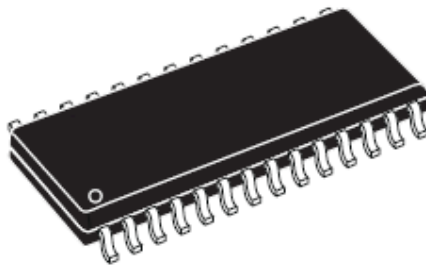


**PRODUCT/PROCESS
CHANGE NOTIFICATION**

PCN AMS-AAS/13/7931

Analog, Mems and Sensors Group

Additional assembly site for ST8024LCDR for AMS Group



SO-28

WHAT:

To introduce an additional assembly and test site for ST8024LCDR in Amkor Philippines

	Current process	Modified process	Comment
Assembly site	ST Muar (Malaysia)	Amkor Philippines	Site already qualified for ST8024CDR (produced since 2008 in Amkor)
Die attach	HITACHI EN4900	ABLESTIK 8290	
Wire	Gold 1 Mil	Gold 1 Mil	No change
Molding compound	SUMITOMO EME7026	SUMITOMO G600	Halogen free material set for the new site
Leadframe	Copper	Copper	
Leadfinishing	NiPdAu	Sn	

No major issue reported after 37Mu units produced in SO28 (ST8024CDR) in Amkor Philipines!

For the complete list of the part numbers affected by the change, please refer to the attached Products list.

Samples are available right now for immediate customer qualification upon request.

WHY:

To improve service to ST Customers, standardize processes for the affected products and propose an halogen free source.

HOW:

The change is already qualified through attached report.
Here below you'll find the details of qualification plan.

Qualification program and results:

The qualification program consists mainly of comparative electrical characterization and reliability tests. Please refer to Appendix 1 for all the details.

WHEN:

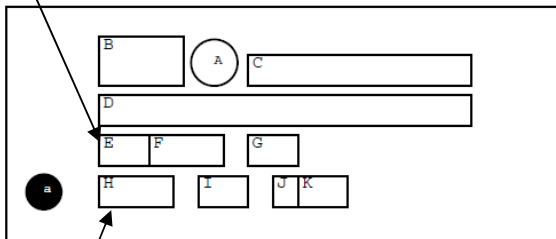
Implementation of additional assembly site for ST8024LCDR is qualified and is forecasted to be implemented in September 2013 (3 months after this announcement) but could be anticipated in case of customer agreement.

Marking and traceability:

Unless otherwise stated by customer specific requirement, the traceability of the parts assembled with the new material set will be ensured thanks to plant code marked on the package as described in below picture.

PACKAGE FACE : TOP

Assy plant code
« 99 » : assy plant Muar
« B7 » : assy plant Amkor



Country of origin:
« MYS » : assy plant Muar
« PHL » : assy plant Amkor

LEGEND

■	Unmarkable Surface
□	Marking Composition Field
a-211	- PIN1-REF
A-22532	- Second_lvl_intct
B-22531	- STANDARD ST LOGO (0000093)
C-22533	- ADDITIONAL INFORMATION (MAX CHAR ALLOWED = 9)
D-22534	- MARKING AREA
E-22535	- Assy Plant (PP)
F-22536	- BE Sequence (LLL)
G-22537	- Diffusion Traceability ant (WX)
H-22538	- COUNTRY OF ORIGIN (MAX CHAR ALLOWED = 3)
I-22539	- Test & Finishing Plant (TF)
J-22540	- Assy Year (Y)
K-22541	- Assy Week (WW)

The changed here reported will not affect the electrical, dimensional and thermal parameters keep-
unchanged all information reported on the relevant datasheets.

There is as well no change in the packing process or in the standard delivery quantities.

Lack of acknowledgement of the PCN within 30 days will constitute acceptance of the change.
After acknowledgement, lack of additional response within the 90 day period will constitute ac-
ceptance of the change (Jedec Standard No. 46-C).

In any case, first shipments may start earlier with customer's written agreement.

REL.6337.191A.05W

Reliability Evaluation Plan and Results

ST8024

BCD6 TECHNOLOGY

Line UL80JP1

Package

SO28

Test	Conditions	S.S.	Requirement	Results
PRECONDITIONING OF SMD DEVICES BEFORE TC/THB/PP	DRYNG 1H @ 125°C STORE 168H @ TA=85°C RH=85% IR 3 times @ 240°C		Parameter deviation within spec. limits after go no go test	No parameter deviation out of spec. limits at end of preconditioning
H.T.S.	TA=150°C	77x1 Lot	Parameter deviation within spec. limits at 1000h	No parameter deviation out of spec. limits at 1000 hours
T.H.B.	<i>D.U.T. PRECONDITIONED</i> TA=85°C – RH=85% Vbias= 6V	77x1 Lot	Parameter deviation within spec. limits at 1000h	No parameter deviation out of spec. limits at 1000 hours
H.T.B.	TA=125°C Vbias=7V	77x1 Lot	Parameter deviation within spec. limits at 1000h	No parameter deviation out of spec. limits at 1000 hours
PRESSURE POT	<i>D.U.T. PRECONDITIONED</i> TA=121°C – PA=2ATM	77x1 Lot	Parameter deviation within spec. limits at 168h	No parameter deviation out of spec. limits at 168 hours
THERMAL CYCLES AIR TO AIR	<i>D.U.T. PRECONDITIONED</i> TA=-65°C TO 150°C 1 HOUR/CYCLE	77x1 Lot	Parameter deviation within spec. limits at 500cycles	No parameter deviation out of spec. limits at 500 cycles
SMD MOISTURE INDUCED STRESS	DRYNG 1H @ 125°C STORE 168H @ TA=85°C RH=85% IR 3 times @ 240°C	25x1 Lot	Parameter deviation within spec. limits at end of test	No parameter deviation out of spec. limits at end of test

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Public Products List

PCN Title : Additionnal Assembly site for ST8024LCDR Smart Card Interface

PCN Reference : AMS-AAS/13/7931

PCN Created on : 10-JUN-2013

Subject : Public Products List

Dear Customer,

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

ST COMMERCIAL PRODUCT

ST8024LCDR

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