

Title of Change:	Update to FPCN25572X - To include the reliability data of PCA Translator 9306 in US8 for the Qualification of Vanguard Fab and Assembly related changes for Logic part.
Proposed First Ship date:	22 Jun 2024 or earlier if approved by customer
Contact Information:	Contact your local Onsemi Sales Office or logic.fpcn@onsemi.com
PCN Samples Contact:	Contact your local Onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Additional Reliability Data:	Contact your local Onsemi Sales Office or ChangKit.Mok@onsemi.com
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. Onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com
Marking of Parts/ Traceability of Change:	Custom source on label will show TW instead of US to indicate new die source from Vanguard. Changed material may be identified by plant code or lot code too.
Change Category:	Wafer Fab Change, Assembly Change
Change Sub-Category(s):	Marking change, Material Change, Manufacturing Site Transfer, Datasheet/Product Doc change

Sites Affected:

onsemi Sites

onsemi Seremban, Malaysia

External Foundry/Subcon Sites

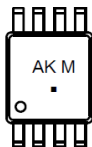
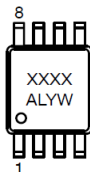
Vanguard International Semiconductor, Taiwan

Description and Purpose:

With respect to **FPCN25572X**, this represents information for US8 I2C Bus Translators Only

	From	To
Fab Site	Tower Semiconductor	Vanguard International Semiconductor
Wafer size	150 mm	200 mm

	From	To
Assembly Site	Stars	onsemi Seremban
Lead Frame	Cu with Ag spot	PPF
Die Attach	Epoxy 8900NC	WBC 8006NS
Bond Wire	0.8 mil Au	0.8 Mil Cu

	From	To
Product marking change		XXXX = Device specific code A5 



Final Product/Process Change Notification

Document #:FPCN25572X27

Issue Date:15 Mar 2024

Reliability Data Summary:

QV DEVICE NAME : NLVA9306USG

RMS : S45607, S60916, S74735

PACKAGE : US8

Test	Specification	Condition	Interval	Results
High Temperature Operating Life	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231
High Temperature Storage Life	JESD22-A103	Ta= 150°C	1008 hrs	0/231
Early Life Failure Rate	JESD22-A108	Ta=125°C, 100 % max rated Vcc	48 hrs	0/800
Preconditioning	J-STD-020 JESD-A113	MSL 1 @ 260°C, Pre TC, uHAST, HAST for surface mount pkgs only	-	0/693
Temperature Cycling	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231
Highly Accelerated Stress Test	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231
Unbiased Highly Accelerated Stress Test	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
Resistance to Solder Heat	JESD22- B106	Ta = 265°C, 10 sec Required for through hole devices only	-	0/30
Solderability	JSTD002	Ta = 245°C, 5 sec	-	0/45

Electrical Characteristics Summary:

	From	To
Ci/O(on): ON-State I/O Pin Capacitance SCLn, SDAn	12.5 pF max	13.1 pF max
ESD Withstand Voltage Human Body Mode	>4000 V	>2000 V
Machine Model (Tested to EIA / JESD22-A115-A)	> 400V	NA
Charged Device Model (Tested to EIA / JESD22-A115-A)	NA	>1000 V

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [PCN Customized Portal](#).

Current Part Number	New Part Number	Qualification Vehicle
PCA9306USG	NLA9306USG	NLVA9306USG

Appendix A: Changed Products

PCN#: FPCN25572X27
Issue Date: Mar 15, 2024

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
PCA9306USG		NLVA9306USG	NLA9306USG	