



# Final Product/Process Change Notification

Document #:FPCN24563X

Issue Date:29 Sep 2022

<b>Title of Change:</b>	UTAC Thai Limited Assembly site expansion	
<b>Proposed First Ship date:</b>	05 Jan 2023 or earlier if approved by customer	
<b>Contact Information:</b>	Contact your local onsemi Sales Office or <a href="mailto:Naruedol.Srisamran@onsemi.com">Naruedol.Srisamran@onsemi.com</a>	
<b>PCN Samples Contact:</b>	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.	
<b>Additional Reliability Data:</b>	Contact your local onsemi Sales Office or <a href="mailto:Shiela.Crosby@onsemi.com">Shiela.Crosby@onsemi.com</a>	
<b>Type of Notification:</b>	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 <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a>	
<b>Marking of Parts/ Traceability of Change:</b>	No change on marking. Traceability will be maintained by manufacturing lot number	
<b>Change Category:</b>	Assembly Change	
<b>Change Sub-Category(s):</b>	Manufacturing Site Addition	
<b>Sites Affected:</b>		
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>	
None	UTAC, Thailand	
<b>Description and Purpose:</b>		
Add UTAC Thailand Bangsamak site as alternative assembly site by applying same machine model and same material for UQFN, DFN and WQFN package.		
	<b>Before Change Description</b>	<b>After Change Description</b>
Assembly Site	UTAC Thailand Bangkok site	UTAC Thailand Bangkok site (site1) and UTAC Thailand Bangsamak site (Site3)



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## Reliability Data Summary:

**QV DEVICE NAME: NCS214RMUTAG**

**RMS: S81621, O82101**

**PACKAGE: UQFN**

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/80
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/80
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/80
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/80
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/80
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		0/240
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108			0/30

**QV DEVICE NAME: NCP186AMN080TBG**

**RMS: S82346, O84413**

**PACKAGE: DFN**

Test	Specification	Condition	Interval	Result
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/77
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020, JESD-A113	MSL 1 @ 260 °C		0/231
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108	Critical Cpk>1.67		0/30

**QV DEVICE NAME: CAT9532HV6I-GT2**

**RMS: S82300, I82584, O84412**

**PACKAGE: WQFN**

Test	Specification	Condition	Interval	Result
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/77
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/77
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/77
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/77
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/77
PC	J-STD-020, JESD-A113	MSL 1 @ 260 °C		0/231
SD	JSTD002	Ta = 245C, 5 sec		0/15
PD	JESD22 B100,B108	Critical Cpk>1.67		0/30



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### Electrical Characteristics Summary:

Electrical characteristics are not impacted.

### 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](#).

Part Number	Qualification Vehicle
NCS20061MUTAG	NCS214RMUTAG
NCS20081MUTAG	NCS214RMUTAG
NCS213RMUTAG	NCS214RMUTAG
NCS210RMUTAG	NCS214RMUTAG
NCS211RMUTAG	NCS214RMUTAG
NCS214RMUTAG	NCS214RMUTAG
CAT9532HV6I-GT2	CAT9532HV6I-GT2
CAT4106HV4-GT2	CAT9532HV6I-GT2
NCP186AMN080TBG	NCP186AMN080TBG