



Final Product/Process Change Notification

Document #:FPCN24613X

Issue Date:18 Mar 2022

Title of Change:	QFN Assembly Qualification of UTAC, Thailand Bangsamak (UTL3) for capacity expansion.
Proposed First Ship date:	28 Jun 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office
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 Rob.Travis@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:	There is no change to the die marking. Traceability will be maintained by the manufacturing lot number
Change Category:	Assembly Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
None	UTAC, Thailand

Description and Purpose:

This final notification announces the qualification of UTAC Thailand Bangsamak (UTL3) for QFN assembly capabilities for the part numbers listed in this Final Product Change Notification (FPCN). All part numbers are currently assembled in ASE Shanghai and UTAC Thailand Bangkok (UTL1). Upon approval of this FPCN, all part numbers included in this FPCN may be assembled in either ASE Shanghai, UTAC Thailand Bangkok (UTL1) or UTAC Thailand Bangsamak (UTL3) as shown in the table below.

Process	Before Change Description	After Change Description
Assembly	ASE Shanghai or UTAC Thailand Bangkok (UTL1)	ASE Shanghai or UTAC Thailand Bangkok (UTL1) or UTAC Thailand Bangsamak (UTL3)

There is no product material or marking change.



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Reliability Data Summary:

QV DEVICE NAME: ASP2100RMNTXG

RMS: 79823

PACKAGE: QFN56

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta= 125°C, 100 % max rated Vcc	1008 hrs	0/231
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/231
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	192 hrs	0/231
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231
PC	J-STD-020, JESD-A113	MSL 1 @ 260 °C		
RSH	JESD22-B106	Ta = 265C, 10 sec		0/75
SD	JSTD002	Ta = 245C, 5 sec		0/ 45

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
NCP81522MNTXG	ASP2100RMNTXG
NCP81521MNTXG	ASP2100RMNTXG
NCP81307MNTXG	ASP2100RMNTXG
NCP81306MNTXG	ASP2100RMNTXG
NCP81305MNTXG	ASP2100RMNTXG
NCP81303MNTXG	ASP2100RMNTXG
NCP81283MNTXG	ASP2100RMNTXG
NCP81267MNTXG	ASP2100RMNTXG
NCP81266MNTXG	ASP2100RMNTXG
NCP81266FHMNTXG	ASP2100RMNTXG
NCP81266FDMNTXG	ASP2100RMNTXG
NCP81266AMNTXG	ASP2100RMNTXG
NCP81265MNTXG	ASP2100RMNTXG
NCP81247MNTXG	ASP2100RMNTXG
NCP81229MNTXG	ASP2100RMNTXG
NCP81228MNTXG	ASP2100RMNTXG
NCP81228FHMNTXG	ASP2100RMNTXG



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NCP81228FDMNTXG	ASP2100RMNTXG
NCP81220MNTXG	ASP2100RMNTXG
NCP81220HMNTXG	ASP2100RMNTXG
NCP81220FHMNTXG	ASP2100RMNTXG
NCP81220FDMNTXG	ASP2100RMNTXG