



Title of Change:	Qualification of ON Semiconductor in Tarlac City, Philippines as additional site for NCP163 in XDFN4 package devices.
Proposed First Ship date:	24 Oct 2020 or earlier if approved by customer
Contact Information:	Contact your local ON Semiconductor Sales Office or Leos.Kneisl@onsemi.com
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com 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 ON Semiconductor Sales Office or Vladislav.Hrachovec@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. ON Semiconductor 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:	The affected products will be identified with date code.
Change Category:	Assembly Change, Test Change
Change Sub-Category(s):	Manufacturing Site Addition

Sites Affected:

ON Semiconductor Sites

External Foundry/Subcon Sites

ON Semiconductor Tarlac, Philippines

None

Description and Purpose:

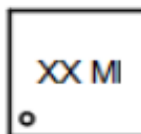
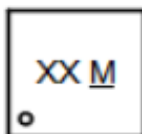
This notification announces that ON Semiconductor in Tarlac City, Philippines factory as additional production site for NCP163 family, which are currently manufactured in Stars, Thailand factory. This location is an expansion of capacity which will supplement other existing DFN/QFN capacities. Future voltage options for these families will be considered dual qualified upon release.

	Before Change Description	After Change Description
Assembly Site	STARS	STARS & Tarlac
Test Site	STARS	STARS & Tarlac

	From	To
Product marking change	STARS : Month Code with under bar	STARS : Month Code with under bar Tarlac : Month Code with side bar on the right

STARS

Tarlac



**Reliability Data Summary:**

QV DEVICE NAME: NCP154MX100180TAG / NCP707AMX150TCG / SCY99217AMXxxxTBG/ NCP153MX330180TCG

RMS : S30657,S28726,S30665,S61771,S61773,S61774,S61777,S61779,S33510

PACKAGE : XDFN4 1*1 .65P

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/400
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/240
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/240
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/240
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C		
RSH	JESD22- B106	Ta = 265C, 10 sec		0/90
SD	JSTD002	Ta = 245C, 5 sec		0/ 45

Electrical Characteristics Summary:

Electrical characteristics are not impacted by the new Tarlac location.

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
NCP163AMX120TBG	NCP163AMX1825TBG
NCP163AMX130TBG	NCP163AMX1825TBG
NCP163AMX150TBG	NCP163AMX1825TBG
NCP163AMX180TBG	NCP163AMX1825TBG
NCP163AMX1825TBG	NCP163AMX1825TBG
NCP163AMX190TBG	NCP163AMX1825TBG
NCP163AMX250TBG	NCP163AMX1825TBG
NCP163AMX260TBG	NCP163AMX1825TBG
NCP163AMX270TBG	NCP163AMX1825TBG
NCP163AMX275TBG	NCP163AMX1825TBG
NCP163AMX280TBG	NCP163AMX1825TBG
NCP163AMX285TBG	NCP163AMX1825TBG
NCP163AMX290TBG	NCP163AMX1825TBG



Final Product/Process Change Notification

Document #: FPCN23223X

Issue Date: 17 Jul 2020

NCP163AMX300TBG	NCP163AMX1825TBG
NCP163AMX400TBG	NCP163AMX1825TBG
NCP163AMX330TBG	NCP163AMX1825TBG
NCP163AMX500TBG	NCP163AMX1825TBG
NCP163BMX180TBG	NCP163AMX1825TBG
NCP163BMX1825TBG	NCP163AMX1825TBG
NCP163BMX275TBG	NCP163AMX1825TBG