



Title of Change:	Update Notice to FPCN21812X to add reliability results. Transfer of the manufacturing site for QFN 7X5 and Smaller Packages of the Wireless Connectivity Solutions Business Unit from UTAC Shanghai to UTAC Thai Limited Site 1 and Site 3.	
Proposed first ship date:	14 December 2017 or earlier after customer approval	
Contact information:	Contact your local ON Semiconductor Sales Office or <Tyler.Day@onsemi.com>	
Samples:	Contact your local ON Semiconductor Sales Office	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or <Paul.Syndergaard@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>.	
Change Part Identification:	Affected parts are to be marked with their respective manufacturing site codes.	
Change category:	<input type="checkbox"/> Wafer Fab Change <input checked="" type="checkbox"/> Assembly Change <input type="checkbox"/> Test Change <input type="checkbox"/> Other _____	
Change Sub-Category(s):	<input checked="" type="checkbox"/> Manufacturing Site Change/Addition <input type="checkbox"/> Material Change <input type="checkbox"/> Datasheet/Product Doc change <input type="checkbox"/> Manufacturing Process Change <input type="checkbox"/> Product specific change <input checked="" type="checkbox"/> Shipping/Packaging/Marking <input type="checkbox"/> Other: _____	
Sites Affected:	ON Semiconductor Sites: None	External Foundry/Subcon Sites: UTAC

Description and Purpose:

This is an Update notice to FPCN21812X to add reliability results.

FPCN21812X was previously issued on September 2017, announcing the transfer of manufacturing site for QFN 7X5 and Smaller Packages of the Wireless Connectivity Solutions Business Unit from UTAC Shanghai to UTAC Thai Limited Site 1 and Site 3 in Thailand. This change is due to closure of the current manufacturing site, UTAC Shanghai. There are no changes to the package bill of material and the case outline. In addition, the part marking will be changed to improve traceability and the Silicon Revision Lower Byte will change from 0x8F to 0x90 due to a process upgrade enhancement change.

	Before Change Description		After Change Description		
	Assembly Site: UTAC Shanghai		Assembly Site: UTAC Thai Limited Site 1 and Site 3		
Part Number	Line 1 Marking	Line 2 Marking	Line 1 Marking	Line 2 Marking	Line 3 Marking
AX-SFUS-1-01-TX30	AX8052F143-2	Traceability Code	SFUS-101	22220-100	Traceability Code
AX-SFUS-1-01-TB05	AX8052F143-2	Traceability Code	SFUS-101	22220-100	Traceability Code
AX-SFUS-API-1-01-TX30	AX8052F143-2	Traceability Code	SFUS-API-101	22220-100	Traceability Code
AX-SFUS-API-1-01-TB05	AX8052F143-2	Traceability Code	SFUS-API-101	22220-100	Traceability Code
AX-SFEU-1-01-TX30	AX8052F143-2	Traceability Code	SFEU-101	22220-100	Traceability Code
AX-SFEU-1-01-TB05	AX8052F143-2	Traceability Code	SFEU-101	22220-100	Traceability Code
AX-SFEU-API-1-01-TX30	AX8052F143-2	Traceability Code	SFEU-API-101	22220-100	Traceability Code
AX-SFEU-API-1-01-TB05	AX8052F143-2	Traceability Code	SFEU-API-101	22220-100	Traceability Code
AX-SFJK-1-01-TX30	AX8052F143-2	Traceability Code	SFJK-101	22220-100	Traceability Code
AX-SFJK-1-01-TB05	AX8052F143-2	Traceability Code	SFJK-101	22220-100	Traceability Code
AX-SFJK-API-1-01-TX30	AX8052F143-2	Traceability Code	SFJK-API-101	22220-100	Traceability Code
AX-SFJK-API-1-01-TB05	AX8052F143-2	Traceability Code	SFJK-API-101	22220-100	Traceability Code
AX-SFAZ-1-01-TX30	AX8052F143-2	Traceability Code	SFAZ-101	22220-100	Traceability Code
AX-SFAZ-1-01-TB05	AX8052F143-2	Traceability Code	SFAZ-101	22220-100	Traceability Code
AX-SFAZ-API-1-01-TX30	AX8052F143-2	Traceability Code	SFAZ-API-101	22220-100	Traceability Code
AX-SFAZ-API-1-01-TB05	AX8052F143-2	Traceability Code	SFAZ-API-101	22220-100	Traceability Code



Reliability Data Summary:

QV DEVICE NAME: AX8052F143-3

PACKAGE: QFN 40 7X5

Test	Specification	Condition	Interval	Results
HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/240
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	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		0/480
RSH	JESD22- B106	Ta = 265C, 10 sec		0/30
SD	JSTD002	Ta = 245C, 10 sec		0/45

Electrical Characteristic Summary:

Electrical characteristics are not expected to be impacted by the changes in this notification. Electrical Correlation Data can be made available upon request.

List of Affected Standard Parts:

Part Number	Qualification Vehicle
AX-SFAZ-1-01-TB05	AX8052F143-3
AX-SFAZ-1-01-TX30	
AX-SFAZ-API-1-01-TB05	
AX-SFAZ-API-1-01-TX30	
AX-SFEU-1-01-TB05	
AX-SFEU-1-01-TX30	
AX-SFEU-API-1-01-TB05	
AX-SFEU-API-1-01-TX30	
AX-SFJK-1-01-TB05	
AX-SFJK-1-01-TX30	
AX-SFJK-API-1-01-TB05	
AX-SFJK-API-1-01-TX30	
AX-SFUS-1-01-TB05	
AX-SFUS-1-01-TX30	
AX-SFUS-API-1-01-TB05	
AX-SFUS-API-1-01-TX30	

Appendix A: Changed Products

D

Product	Customer Part Number	Qualification Vehicle
AX-SFAZ-1-01-TB05		AX8052F143-3
AX-SFAZ-1-01-TX30		AX8052F143-3
AX-SFAZ-API-1-01-TB05		AX8052F143-3
AX-SFAZ-API-1-01-TX30		AX8052F143-3
AX-SFEU-1-01-TB05		AX8052F143-3
AX-SFEU-1-01-TX30		AX8052F143-3
AX-SFEU-API-1-01-TB05		AX8052F143-3
AX-SFEU-API-1-01-TX30		AX8052F143-3
AX-SFJK-1-01-TB05		AX8052F143-3
AX-SFJK-1-01-TX30		AX8052F143-3
AX-SFJK-API-1-01-TB05		AX8052F143-3
AX-SFJK-API-1-01-TX30		AX8052F143-3
AX-SFUS-1-01-TB05		AX8052F143-3
AX-SFUS-1-01-TX30		AX8052F143-3
AX-SFUS-API-1-01-TB05		AX8052F143-3
AX-SFUS-API-1-01-TX30		AX8052F143-3