



## Final Product/Process Change Notification

Document #: FPCN24655ZB

Issue Date: 09 Dec 2022

<b>Title of Change:</b>	Additional Assembly Site - Dual Source at UTAC 3, Thailand Site.							
<b>Proposed Changed Material First Ship Date:</b>	01 Dec 2023 or earlier if approved by customer							
<b>Current Material Last Order Date:</b>	N/A <i>Orders received after the Current Material Last Order Date expiration are to be considered as orders for new changed material as described in this PCN. Orders for current (unchanged) material after this date will be per mutual agreement and current material inventory availability.</i>							
<b>Current Material Last Delivery Date:</b>	N/A <i>The Current Material Last Delivery Date may be subject to change based on build and depletion of the current (unchanged) material inventory</i>							
<b>Product Category:</b>	Active components – Integrated circuits							
<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 to place sample order. Sample requests are to be submitted no later than 45 days after publication of this change notification. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.							
<b>Sample Availability Date:</b>	31 Mar 2023							
<b>PPAP Availability Date:</b>	24 Nov 2022							
<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. The change will be implemented at 'Proposed Change Material First Ship Date' in compliance to J-STD-46 or ZVEI, or earlier upon customer approval, or per our signed agreements. onsemi will consider this proposed change and it's conditions acceptable, unless an inquiry is made in writing within 45 days of delivery of this notice. To do so, contact <a href="mailto:PCN.Support@onsemi.com">PCN.Support@onsemi.com</a> .							
<b>Change Category</b>								
<b>Category</b>	<b>Type of Change</b>							
Process - Assembly	Move of all or part of assembly to a different location/site/subcontractor.							
<b>Description and Purpose:</b>								
There is no BOM changes other than adding UTAC 3 as additional site to assembly.								
<table><tr><th></th><th>From</th><th>To</th></tr><tr><td>Assembly Site</td><td>UTAC 1</td><td>UTAC 1 and UTAC 3</td></tr></table>				From	To	Assembly Site	UTAC 1	UTAC 1 and UTAC 3
	From	To						
Assembly Site	UTAC 1	UTAC 1 and UTAC 3						
<b>Reason / Motivation for Change:</b>	Source/Supply/Capacity Changes							
<b>Anticipated impact on fit, form, function, reliability, product safety or manufacturability:</b>	The device has been qualified and validated based on the same Product Specification. The device has successfully passed the qualification tests. Potential impacts can be identified, but due to testing performed by onsemi in relation to the PCN, associated risks are verified and excluded.  No anticipated impacts.							



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<b>Sites Affected:</b>																																																			
<b>onsemi Sites</b>	<b>External Foundry/Subcon Sites</b>																																																		
None	UTAC, Thailand																																																		
<b>Marking of Parts/ Traceability of Change:</b>	Identify by Date or Lot code																																																		
<b>Reliability Data Summary:</b>																																																			
QV DEVICE NAME: NLVPCA9535EMTTXG																																																			
RMS: 82301																																																			
PACKAGE: WQFN24																																																			
<table border="1"><thead><tr><th>Test</th><th>Specification</th><th>Condition</th><th>Interval</th><th>Results</th></tr></thead><tbody><tr><td>HTOL</td><td>JESD22-A108</td><td>Ta=125°C, 100 % max rated Vcc</td><td>1008 hrs</td><td>0/231</td></tr><tr><td>ELFR</td><td>AEC-Q100-008</td><td>Ta= 125°C</td><td>48 hrs</td><td>0/2400</td></tr><tr><td>HTSL</td><td>JESD22-A103</td><td>Ta= 150°C</td><td>1008 hrs</td><td>0/231</td></tr><tr><td>PC</td><td>J-STD-020 JESD-A113</td><td>MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only</td><td></td><td>0/693</td></tr><tr><td>TC</td><td>JESD22-A104</td><td>Ta= -65°C to +150°C</td><td>500 cyc</td><td>0/231</td></tr><tr><td>HAST</td><td>JESD22-A110</td><td>130°C, 85% RH, 18.8psig, bias</td><td>96 hrs</td><td>0/231</td></tr><tr><td>uHAST</td><td>JESD22-A118</td><td>130°C, 85% RH, 18.8psig, unbiased</td><td>96 hrs</td><td>0/231</td></tr><tr><td>SD</td><td>JSTD002</td><td>Ta = 245°C, 5 sec</td><td></td><td>0/45</td></tr><tr><td>PD</td><td>JESD22 B100,B108</td><td>Critical Cpk&gt;1.67</td><td></td><td>0/30</td></tr></tbody></table>	Test	Specification	Condition	Interval	Results	HTOL	JESD22-A108	Ta=125°C, 100 % max rated Vcc	1008 hrs	0/231	ELFR	AEC-Q100-008	Ta= 125°C	48 hrs	0/2400	HTSL	JESD22-A103	Ta= 150°C	1008 hrs	0/231	PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C, Pre TC, uHAST, HAST for surface mount pkgs only		0/693	TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/231	HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs	0/231	uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/231	SD	JSTD002	Ta = 245°C, 5 sec		0/45	PD	JESD22 B100,B108	Critical Cpk>1.67		0/30	
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<b>NOTE: AEC-1pager is attached.</b>																																																			
To view attachments: 1. Download pdf copy of the PCN to your computer 2. Open the downloaded pdf copy of the PCN 3. Click on the paper clip icon available on the menu provided in the left/bottom portion of the screen to reveal the Attachment field 4. Then click on the attached file.																																																			
<b>Electrical Characteristics Summary:</b>																																																			
Electrical characteristics are not impacted.																																																			

<b>List of Affected Parts:</b>		
<b>Note:</b> 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 <u><a href="#">PCN Customized Portal</a></u> .		
<b>Current Part Number</b>	<b>New Part Number</b>	<b>Qualification Vehicle</b>
NLVPCA9535EMTTXG	NA	NLVPCA9535EMTTXG