



# Process Change Notice #1611164

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<b>PCN Issue Date:</b> 11/16/2016		<b>Effective Date:</b> 2/22/2017	
<b>Title:</b> Additional Assembly Test Ship site for Si44xx (20QFN-4x4)_SPIL-KYEC			
<b>PCN Type:</b>			
<input type="checkbox"/> Datasheet	<input type="checkbox"/> Foundry	<input type="checkbox"/> Packing	
<input type="checkbox"/> Product Revision	<input checked="" type="checkbox"/> Assembly	<input type="checkbox"/> Labeling	
<input type="checkbox"/> Discontinuance	<input checked="" type="checkbox"/> Test	<input type="checkbox"/> Other	
<b>Last Order Date:</b> NA			
<b>PCN Details</b>			
<b>Description of Change:</b>			
Silicon Labs is pleased to announce the successful addition of SPIL (Siliconware Precision Industries C., Ltd.) & KYEC (King Yuan Electronics Company) Tongluo as an additional assembly & Test/ship site for the Si44xx (20QFN-4x4) products. SPIL is an existing assembly site for Silicon Labs, and is certified to ISO9001, ISO14001 and ISO/TS16949. KYEC is also an existing test supplier for Silicon Labs, certified and registered to ISO9001, ISO14001, ISO/TS16949 and a Sony Green Partner.			
<u>SPIL address:</u> Siliconware Precision Industries Co., Ltd. No. 153, Sec. 3, Chung Shan Road, Tantzsu, Taichung, Taiwan 427, R. O. C Tel: 886-4-2534-1525 Fax: 886-4-2533-0639			
<u>KYEC address:</u> KYEC (King Yuan Electronics Company) No. 8 Tongke North Road, Tongluo Township, Miao-Li County 366, Taiwan R.O.C			
No change in tray, carrier tape, cover tape & reel dimensions and they are in compliance to EIA481.			
After the effective date of this PCN, Silicon Labs will consider SPIL & KYEC Tongluo as a qualified assembly & test/ship site for all products from these product families.			
<b>Reason for Change:</b>			
The qualification of SPIL-KYEC as a second source assembly & test site will improve Silicon Labs ability to meet customer demand.			
<b>Impact on Form, Fit, Function, Quality, Reliability:</b>			
There is no impact to form, fit, function, quality and reliability.			



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**Product Identification:**

SI4060-B1B-FM  
SI4060-B1B-FMR  
SI4063-B1B-FM  
SI4063-B1B-FMR  
SI4362-B1B-FM  
SI4362-B1B-FMR  
SI4438-B1C-FM  
SI4438-B1C-FMR  
SI4438-B1C-ZM1  
SI4438-B1C-ZM1R  
SI4460-B1B-FM  
SI4460-B1B-FMR  
SI4460-B1B-ZM  
SI4460-B1B-ZMR  
SI4460-B1B-ZM1  
SI4460-B1B-ZM1R  
SI4461-B1B-FM  
SI4461-B1B-FMR  
SI4463-B1B-FM  
SI4463-B1B-FMR  
SI4463-B1B-ZM1  
SI4463-B1B-ZM1R  
SI4464-B1B-FM  
SI4464-B1B-FMR

**Last Date of Unchanged Product:** 2/22/2017

**Qualification Samples:**

Samples are available upon request. Please contact your local sales representative to order samples

**Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at [www.silabs.com](http://www.silabs.com).**

**In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.**

**Customer Early Acceptance Sign Off:**

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: Date: \_\_\_\_\_

Name: \_\_\_\_\_


Company: \_\_\_\_\_

Email your early Acceptance approval to: [katherine.haggar@silabs.com](mailto:katherine.haggar@silabs.com)

**Qualification Data:**

Please see appendix below for assembly qualification. The test qualification report is available upon request.

## Appendix A– Assembly Qual Report

<b>Si44xx 20 QFN 4x4 Qualification Report</b>							
		<b>W7101F1 - Product Qualification Report Record</b>			<b>Rev. I</b>		
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<b>Part Rev B1, TSMC Fabrication, SPIL Assembly except as noted</b>							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group A – Accelerated Environment Stress Tests</b>							
HAST	JA110 130°C, 85%RH Vcc=VccV, 96 hours	3 lots, N=>25	Q039604	0/30		3 lots 0/90	Pass
			Q039603	0/30			
			Q039602	0/30			
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q039598	0/30		3 lots 0/90	Pass
			Q039597	0/30			
			Q039596	0/30			
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q039595	0/30		3 lots 0/90	Pass
			Q039594	0/30			
			Q039593	0/30			
<b>Test Group E – Electrical Verification</b>							
ESD-CDM	JS-002	1 lot, N=>3	Q039605			1KV	Class C2B
Notes:							
1. Parts are Pre-conditioned at MSL 1/260°C							
This report applies to the following part numbers:							
Si4460-B1B-FM	Si4060-B1B-FM	Si4438-B1C-ZM1					
Si4461-B1B-FM	Si4063-B1B-FM	Si4460-B1B-ZM1					
Si4463-B1B-FM	Si4362-B1B-FM	Si4463-B1B-ZM1					
Si4464-B1B-FM	Si4438-B1C-FM	Si4460-B1B-ZM					
Approved by: Ramon Ponsones		1 of 1		Prepared on: 07-Nov-16			