



# 191209647 Si82xx/Si84xx/Si86xx 8/16-SOIC-150mils Assembly, Test and Ship Site Addition (UTL)

**PCN Issue Date:** 12/09/2019

**Effective Date:** 03/13/2020

**PCN Type:** Assembly

## Description of Change

Silicon Labs is pleased to announce the successful qualification of UTAC Thailand (UTL) as an additional assembly, test and shipping site for Si82xx/Si84xx/Si86xx, 8/16L-SOIC-150mils. UTL is an existing assembly, test and shipping site for Silicon Labs, and is certified to ISO9001, ISO14001 and IATF16949.

UTL Ship Address:  
UTAC Thai Limited  
Wellgrow Industrial Estate, 73 Moo 5, Bangna-Trad (KM.36)  
T.Bangsamak, Bangpakong Chachoengsao 24180 Thailand  
Bangkok  
Zip code: 24180

As of the effective date of the PCN, Silicon Labs may assemble, test and ship from either of the qualified assembly, test and shipping sites.

## Reason for Change

The additional assembly and test locations will provide additional capacity for supply assurance.

## Impact on Form, Fit, Function, Quality, Reliability

There is no impact on form, fit, function, quality, or reliability. The devices assembled and tested at UTL will comply with Silicon Labs' relevant datasheets and quality levels.

The same test equipment including ATE, test load board hardware, and test application software will be used at both locations.

## Product Identification

Existing Part #  
SI8230AB-D-IS1  
SI8230AB-D-IS1R  
SI8230BB-D-IS1  
SI8230BB-D-IS1R  
SI8231AB-D-IS1  
SI8231AB-D-IS1R  
SI8231BB-D-IS1  
SI8231BB-D-IS1R  
SI8232AB-D-IS1  
SI8232AB-D-IS1R  
SI8232BB-D-IS1  
SI8232BB-D-IS1R  
SI8233BB-D-IS1  
SI8233BB-D-IS1R  
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SI8235AB-D-IS1R

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SI8238BB-D-IS1  
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SI8241BB-D-IS1  
SI8241BB-D-IS1R  
SI8241CB-D-IS1  
SI8241CB-D-IS1R  
SI8244BB-D-IS1  
SI8244BB-D-IS1R  
SI8244CB-D-IS1  
SI8244CB-D-IS1R  
SI8400AA-A-IS  
SI8400AA-A-ISR  
SI8400AA-B-IS  
SI8400AA-B-ISR  
SI8401AA-B-IS  
SI8401AA-B-ISR  
SI8402AB-B-IS  
SI8402AB-B-ISR  
SI8405AA-B-IS1  
SI8405AA-B-IS1R  
SI8405AB-A-IS1  
SI8405AB-A-IS1R  
SI8410AB-C-IS  
SI8410AB-C-ISR  
SI8410AB-D-IS  
SI8410AB-D-ISR  
SI8410BB-C-IS  
SI8410BB-C-ISR  
SI8410BB-D-IS  
SI8410BB-D-ISR  
SI8420AB-C-IS  
SI8420AB-C-ISR  
SI8420AB-D-IS  
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SI8420BB-C-IS  
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SI8421AB-C-IS  
SI8421AB-C-ISR  
SI8421BB-C-IS  
SI8421BB-C-ISR  
SI8421BB-D-IS  
SI8421BB-D-ISR  
SI8422BB-D-IS  
SI8422BB-D-ISR  
SI8423AB-D-IS  
SI8423AB-D-ISR  
SI8423BB-D-IS  
SI8423BB-D-ISR  
SI8430AB-C-IS1  
SI8430AB-C-IS1R  
SI8430AB-D-IS1  
SI8430AB-D-IS1R  
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SI8430BB-C-IS1R  
SI8430BB-D-IS1  
SI8430BB-D-IS1R  
SI8431AB-C-IS1

SI8431AB-C-IS1R  
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SI8440BB-C-IS1  
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SI8440BB-D-IS1R  
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SI8645BB-B-IS1  
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SI8645BC-B-IS1  
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SI8650AB-B-IS1R  
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SI8652BB-B-IS1  
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SI8652BC-B-IS1  
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SI8652EC-B-IS1  
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SI8655BB-B-IS1  
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SI8661BC-B-IS1  
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SI8661EC-B-IS1  
SI8661EC-B-IS1R  
SI8662AB-B-IS1  
SI8662AB-B-IS1R  
SI8662BB-B-IS1  
SI8662BB-B-IS1R  
SI8662BC-B-IS1  
SI8662BC-B-IS1R  
SI8662EC-B-IS1  
SI8662EC-B-IS1R  
SI8663AB-B-IS1  
SI8663AB-B-IS1R  
SI8663BB-B-IS1  
SI8663BB-B-IS1R  
SI8663BC-B-IS1  
SI8663BC-B-IS1R  
SI8663EC-B-IS1  
SI8663EC-B-IS1R  
SI8SL8AB-D-IS1  
SI8SL8AB-D-IS1R

**Last Date of Unchanged Product:** 12/27/2019

### Qualification Samples

Qualification samples available upon request.

### Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at <http://www.silabs.com>.

Customers may approve early PCN acceptance by emailing approval, along with PCN # to [PCNEarlyAcceptance@silabs.com](mailto:PCNEarlyAcceptance@silabs.com)

## User Registration

Register today to create your account on Silabs.com. Your personalized profile allows you to receive technical document updates, new product announcements, "how-to" and design documents, product change notices (PCN) and other valuable content available only to registered users. <http://www.silabs.com/profile>

## Qualification Data

Qualification Report is attached.



### UTAC 08/16-SOIC-150mil Qualification Report

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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>16-SOIC-150mil Si823x Products - Test Group A</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q044753	0/80	1	3 lots 0/0	Pass
			Q044794	0/80	1		
			Q044795	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q045164	0/82	1	3 lots 0/0	Pass
			Q045165	0/82	1		
			Q045166	0/82	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q044451	0/82	1	3 lots 0/0	Pass
			Q044452	0/78	1		
			Q044453	0/82	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q044466	0/28	1	3 lots 0/0	Pass
			Q044467	0/30	1		
			Q044468	0/28	1		
<b>16-SOIC-150mil Si84xx / Si86xx Products - Test Group A</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q044522	0/80	1	3 lots 0/0	Pass
			Q044791	0/80	1		
			Q044792	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q045152	0/79	1	3 lots 0/0	Pass
			Q045153	0/80	1		
			Q045154	0/82	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q044445	0/82	1	3 lots 0/0	Pass
			Q044446	0/82	1		
			Q044450	0/82	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q044460	0/30	1	3 lots 0/0	Pass
			Q044461	0/26	1		
			Q044462	0/25	1		
<b>08-SOIC-150mil Si84xx / Si86xx Products - Test Group A</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q044752	0/80	1	3 lots 0/0	Pass
			Q044789	0/80	1		
			Q044790	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q045148	0/82	1	3 lots 0/0	Pass
			Q045149	0/80	1		
			Q045150	0/80	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q044439	0/81	1	3 lots 0/0	Pass
			Q044440	0/80	1		
			Q044441	0/80	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q044454	0/25	1	3 lots 0/0	Pass
			Q044455	0/30	1		
			Q044456	0/30	1		





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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>16-SOIC-150mil Si823x Products - Test Group C</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	WQM2072	0/5		3 lots 0/15	Pass
			WQM2074	0/5			
			WQM2075	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	WQM2072	0/5		3 lots 0/15	Pass
			WQM2074	0/5			
			WQM2075	0/5			
Physical Dimensions	JB100	3 lots, N=>10	WQM2072	0/30		3 lots 0/90	Pass
			WQM2074	0/30			
			WQM2075	0/30			
Solderability	JB102	1 lot, N=>15	WQM2072	0/10		3 lots 0/30	Pass
			WQM2074	0/10			
			WQM2075	0/10			
<b>16-SOIC-150mil Si84xx / Si86xx Products - Test Group C</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	WQM2129	0/5		3 lots 0/15	Pass
			WQM2130	0/5			
			WQM2131	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	WQM2129	0/5		3 lots 0/15	Pass
			WQM2130	0/5			
			WQM2131	0/5			
Physical Dimensions	JB100	3 lots, N=>10	WQM2129	0/30		3 lots 0/90	Pass
			WQM2130	0/30			
			WQM2131	0/30			
Solderability	JB102	1 lot, N=>15	WQM2129	0/10		3 lots 0/30	Pass
			WQM2130	0/10			
			WQM2131	0/10			
<b>08-SOIC-150mil Si84xx / Si86xx Products - Test Group C</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	WQM2126	0/5		3 lots 0/15	Pass
			WQM2127	0/5			
			WQM2128	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	WQM2126	0/5		3 lots 0/15	Pass
			WQM2127	0/5			
			WQM2128	0/5			
Physical Dimensions	JB100	3 lots, N=>10	WQM2126	0/30		3 lots 0/90	Pass
			WQM2127	0/30			
			WQM2128	0/30			
Solderability	JB102	1 lot, N=>15	WQM2126	0/10		3 lots 0/30	Pass
			WQM2127	0/10			
			WQM2128	0/10			



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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group E – Electrical Verification							
ESD-CDM	AEC-Q100-011	1 lot, N=>3	Q044651	16-SOIC-150	SI823x	1.25 kV	Class C6
			Q044640	16-SOIC-150	SI84/86xx	1.25 kV	Class C6
			Q044638	08-SOIC-150	SI84/86xx	1.25 kV	Class C6

1. Parts are Pre-conditioned at MSL 2 @ 260°C



#### Disclaimer

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