



Process Change Notice #1604181

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PCN Date: 4/18/2016		Effective Date: 7/22/2016										
Title: SiM3L1x, SiM3U1x, SiM3C1x Assembly site addition (ASECL)												
Originator: Paranidharan		Phone: +65 6511 7735	Dept: Supplier Management									
Customer Contact: Kathy Haggar		Phone: (512) 464-5261	Dept: Sales									
PCN Type: <table border="0"><tr><td><input type="checkbox"/> Datasheet</td><td><input type="checkbox"/> Foundry</td><td><input type="checkbox"/> Packing</td></tr><tr><td><input type="checkbox"/> Product Revision</td><td><input checked="" type="checkbox"/> Assembly</td><td><input type="checkbox"/> Labeling</td></tr><tr><td><input type="checkbox"/> Discontinuance</td><td><input type="checkbox"/> Test</td><td><input type="checkbox"/> Other</td></tr></table>				<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 type="checkbox"/> Test	<input type="checkbox"/> Other
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<input type="checkbox"/> Discontinuance	<input type="checkbox"/> Test	<input type="checkbox"/> Other										
Last Order Date: Not Applicable												
PCN Details												
Description of Change: Silicon Labs is pleased to announce the successful qualification of ASECL (Advanced Semiconductor Engineering Chung Li) as an additional assembly site for SiM3L1x, SiM3U1x & SiM3C1x products (64TQFP-10x10). ASECL is an existing Assembly site for Silicon Labs, and is certified to ISO9001, ISO14001 and ISO/TS16949. As of the effective date of the PCN, Silicon Labs may assemble product at ASECL or at the existing supplier site.												
Reason for Change: The qualification of ASECL as a second source assembly site will improve Silicon Labs ability to meet customer demand.												
Impact on Form, Fit, Function, Quality, Reliability: There is no impact to form, fit, function, quality and reliability												



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Product Identification:

S3U1xxxxxxGQ
S3U1xxxxxxGQR
SIM3C136-B-GQ
SIM3C136-B-GQR
SIM3C146-B-GQ
SIM3C146-B-GQR
SIM3C156-B-GQ
SIM3C156-B-GQR
SIM3C166-B-GQ
SIM3C166-B-GQR
SIM3L136-C-GQ
SIM3L136-C-GQR
SIM3L146-C-GQ
SIM3L146-C-GQR
SIM3L156-C-GQ
SIM3L156-C-GQR
SIM3L166-C-GQ
SIM3L166-C-GQR
SIM3U136-B-GQ
SIM3U136-B-GQR
SIM3U146-B-GQ
SIM3U146-B-GQR
SIM3U156-B-GQ
SIM3U156-B-GQR
SIM3U166-B-GQ
SIM3U166-B-GQR

The 'x' denotes customizable part numbers.

Last Date of Unchanged Product: 7/22/2016

Qualification Samples:

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



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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.

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.hagggar@silabs.com

Qualification Data:

Please see Qualification Reports below.

SiM3U1x6-B-GQ and SiM3C1x6-B-GQ ASECL Assembly Site Qualification Report



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Part Rev B, TSMC Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
HAST	JA110	3 lots, N=>25	Q038665	0/25	1		Pass
	130°C, 85%RH		Q038668	0/25	1	3 lots	
	Vcc=3.8V, 96 hours		Q038669	0/25	1	0/75	
Temp Cycle	JA104	3 lots, N=>25	Q038187	0/25	1		Pass
	Cond C: -65°C to 150°C		Q038188	0/25	1	3 lots	
	500 cycles		Q038189	0/25	1	0/75	
HTSL	JA103	3 lots, N=>25	Q038190	0/25	1		Pass
	150°C, 1000hr		Q038191	0/25	1	3 lots	
			Q038192	0/25	1	0/75	
Test Group E – Electrical Verification							
ESD-CDM	JC101	1 lot, N=>3	Q038399				Class C3

Notes:

- Parts are Pre-conditioned at MSL2/260°C

This report applies to the following part numbers:	
SiM3U166-B-GQ	SiM3C166-B-GQ
SiM3U156-B-GQ	SiM3C156-B-GQ
SiM3U146-B-GQ	SiM3C146-B-GQ
SiM3U136-B-GQ	SiM3C136-B-GQ

SiM3L1x6-C-GQ ASECL Assembly Site Qualification Report



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Part Rev B, TSMC Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
HAST	JA110 130°C, 85%RH Vcc=3.8V, 96 hours	3 lots, N=>25	Q038666	0/25	1		Pass
			Q038670	0/25	1	3 lots	
			Q038671	0/25	1	0/75	
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q037435	0/25	1		Pass
			Q037436	0/25	1	3 lots	
			Q037437	0/25	1	0/75	
uHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>25	Q037444	0/25	1		Pass
			Q037445	0/25	1	3 lots	
			Q037446	0/25	1	0/75	
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q037441	0/25	1		Pass
			Q037442	0/25	1	3 lots	
			Q037443	0/25	1	0/75	
Test Group E – Electrical Verification							
ESD- CDM	JC101	1 lot, N=>3	Q038399				Class C3

Notes:

- Parts are Pre-conditioned at MSL2/260°C

This report applies to the following part numbers:	
SIM3L136-C-GQ	
SIM3L146-C-GQ	
SIM3L156-C-GQ	
SIM3L166-C-GQ	