



## Process Change Notice #1604111

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<b>PCN Date:</b> 4/11/2016	<b>Effective Date:</b> 7/14/2016																					
<b>Title:</b> C8051F80x/1x/2x/3x-GS 16NBSOIC Assembly site addition (ASECL)																						
<b>PCN Type:</b> <table><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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<b>Last Order Date:</b> Not Applicable																						
<b>PCN Details</b>																						
<b>Description of Change:</b> Silicon Labs is pleased to announce the successful addition of ASECL (ASECL) as an additional Assembly and Test site for C8051F80x/1x/2x/3x. ASECL is an existing Assembly and Test site for Silicon Labs, and is certified to ISO9001, ISO14001 and ISO/TS16949. ASECL address: ASE Group Chung-Li 550, Chung Hwa Road section 1 Chung-Li, 320, Taiwan R.O.C  As of the effective date of the PCN, Silicon Labs may assemble and test from either of the qualified Assembly and Test sites.  The following table shows the BOM of both assembly sites:																						
	<table border="1"><thead><tr><th></th><th>ASECL</th><th>Unisem</th></tr></thead><tbody><tr><td>Package Type :</td><td>16-SOIC-150mils</td><td>16-SOIC-150mils</td></tr><tr><td>Lead Frame :</td><td>Stamped DCI C194</td><td>Stamped ASM A194</td></tr><tr><td>Die Attach Epoxy :</td><td>Hitachi EN4900G</td><td>Henkel Ablebond 8290</td></tr><tr><td>Bond Wire :</td><td>Tanaka 4N Gold</td><td>Tanaka 4N Gold</td></tr><tr><td>Mold Compound :</td><td>Sumitomo EME-G700LA</td><td>Sumitomo EME-G600</td></tr><tr><td>Lead Finish :</td><td>Technic Matte Sn</td><td>Nihon (SMT) Matte Sn</td></tr></tbody></table>		ASECL	Unisem	Package Type :	16-SOIC-150mils	16-SOIC-150mils	Lead Frame :	Stamped DCI C194	Stamped ASM A194	Die Attach Epoxy :	Hitachi EN4900G	Henkel Ablebond 8290	Bond Wire :	Tanaka 4N Gold	Tanaka 4N Gold	Mold Compound :	Sumitomo EME-G700LA	Sumitomo EME-G600	Lead Finish :	Technic Matte Sn	Nihon (SMT) Matte Sn
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<b>Reason for Change:</b> Increase assembly and test capacities to ensure dual sourcing																						
<b>Impact on Form, Fit, Function, Quality, Reliability:</b> Change in BOM as specified in the BOM table above. No changes to Fit, Function, Quality and Reliability																						



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**Product Identification:**

C8051F803-GS	C8051F803-GSR
C8051F804-GS	C8051F804-GSR
C8051F805-GS	C8051F805-GSR
C8051F809-GS	C8051F809-GSR
C8051F810-GS	C8051F810-GSR
C8051F811-GS	C8051F811-GSR
C8051F815-GS	C8051F815-GSR
C8051F816-GS	C8051F816-GSR
C8051F817-GS	C8051F817-GSR
C8051F821-GS	C8051F821-GSR
C8051F822-GS	C8051F822-GSR
C8051F823-GS	C8051F823-GSR
C8051F824-GS	C8051F824-GSR
C8051F825-GS	C8051F825-GSR
C8051F826-GS	C8051F826-GSR
C8051F827-GS	C8051F827-GSR
C8051F828-GS	C8051F828-GSR
C8051F829-GS	C8051F829-GSR
C8051F830-GS	C8051F830-GSR
C8051F831-GS	C8051F831-GSR
C8051F832-GS	C8051F832-GSR
C8051F833-GS	C8051F833-GSR
C8051F834-GS	C8051F834-GSR
C8051F835-GS	C8051F835-GSR

**Last Date of Unchanged Product:** 7/14/2016

**Qualification Samples:**

Available upon request



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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](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.hagggar@silabs.com](mailto:katherine.hagggar@silabs.com)

### Qualification Data:

Test Group A – Accelerated Environment Stress Tests - ASECL - SOIC							
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>25	Q038963	0/77		3 lots 0/231	Pass
			Q038964	0/77			
			Q038965	0/77			
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q038960	0/77		3 lots 0/231	Pass
			Q038961	0/77			
			Q038962	0/77			
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q038966	0/77		3 lots 0/231	Pass
			Q038967	0/77			
			Q038968	0/77			