



# 2311221491 Additional Assembly, Test & Ship Site for EFM8BB51/52 (QFN-3x3&QFN-5x5)

**PCN Issue Date:** Nov 22, 2023

**Effective Date:** Feb 28, 2024

**PCN Type:** Assembly

## Description of Change

Silicon Labs is pleased to announce the successful qualification of ASE Chung Li as an additional assembly, test and ship site for EFM8BB51 and EFM8BB52 (20-QFN-3x3 & 32-QFN-5x5). ASE Chung Li is an existing assembly and test site for Silicon Labs, and is certified to ISO9001, ISO14001 and IATF16949.

ASE Chung Li Ship Address:  
ASE ChungLi  
No. 550, Chung-Hwa Road, Section 1,  
Chung-Li, Taoyuan, 320, Taiwan

As of the effective date of the PCN, Silicon Labs may ship from either of the qualified sites.

## Reason for Change

Additional Assembly and Test capacity for supply continuity

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

There is no change on form, fit, function, quality or reliability

## Product Identification

Existing Part #  
EFM8BB51F8G-C-QFN20  
EFM8BB51F8G-C-QFN20R  
EFM8BB51F8I-C-QFN20  
EFM8BB51F8I-C-QFN20R  
EFM8BB51F16G-C-QFN20  
EFM8BB51F16G-C-QFN20R  
EFM8BB51F16I-C-QFN20  
EFM8BB51F16I-C-QFN20R  
EFM8BB51P1781FCBM-C  
EFM8BB51P1781FCBM-CR  
EFM8BB51P1782FCBM-C  
EFM8BB51P1782FCBM-CR  
EFM8BB52F16G-C-QFN20  
EFM8BB52F16G-C-QFN20R  
EFM8BB52F16I-C-QFN20  
EFM8BB52F16I-C-QFN20R  
EFM8BB52F32G-C-QFN20  
EFM8BB52F32G-C-QFN20R  
EFM8BB52F32I-C-QFN20  
EFM8BB52F32I-C-QFN20R  
EFM8BB52F16G-C-QFN32  
EFM8BB52F16G-C-QFN32R  
EFM8BB52F16I-C-QFN32  
EFM8BB52F16I-C-QFN32R

EFM8BB52F32G-C-QFN32  
EFM8BB52F32G-C-QFN32R  
EFM8BB52F32I-C-QFN32  
EFM8BB52F32I-C-QFN32R

**Last Date of Unchanged Product:** Feb 28, 2024

### 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 [PCN@silabs.com](mailto:PCN@silabs.com)

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### Qualification Data

Please refer to qualification report below.



### EFM8BB5x ASECL Alternate Assy/Test Site Qualification Report

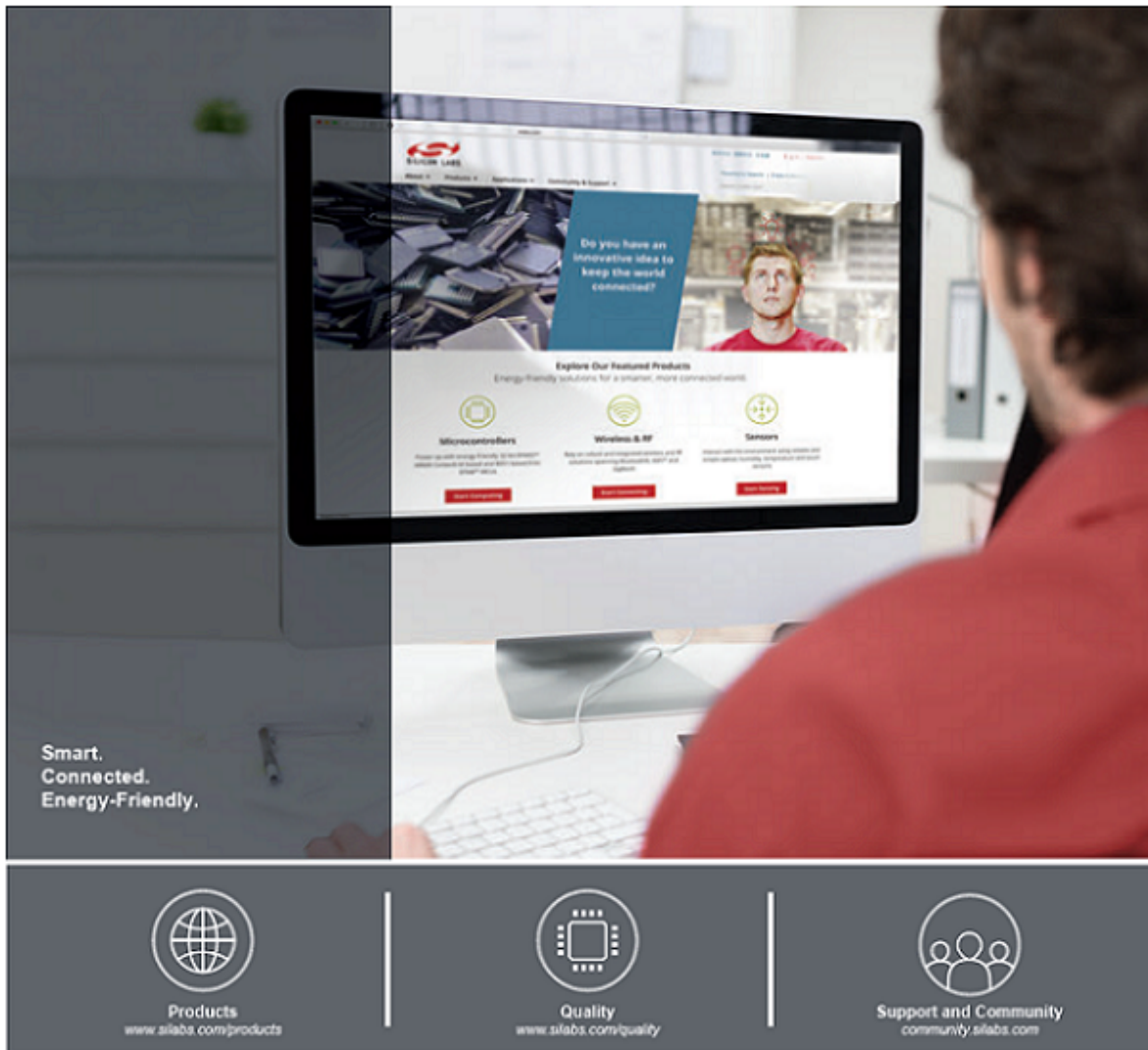
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Part Rev A2, TSMC Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group A – Accelerated Environment Stress Tests 20-QFN-3x3</b>							
uHAST	JA118	3 lots, N=>25	Q050737	0/30	1	3 lots	Pass
	Cond A: 130°C, 85%RH		Q050758	0/30	1		
	96 hours		Q050761	0/30	1		
Temp Cycle	JA104	3 lots, N=>25	Q050755	0/30	1	3 lots	Pass
	Cond C: -65°C to 150°C		Q050759	0/30	1		
	500 cycles		Q050762	0/30	1		
<b>Test Group A – Accelerated Environment Stress Tests 32-QFN-5x5</b>							
uHAST	JA118	3 lots, N=>25	Q050730	0/30	1	3 lots	Pass
	Cond A: 130°C, 85%RH		Q050748	0/30	1		
	96 hours		Q050751	0/30	1		
Temp Cycle	JA104	3 lots, N=>25	Q050746	0/30	1	3 lots	Pass
	Cond C: -65°C to 150°C		Q050749	0/30	1		
	500 cycles		Q050752	0/30	1		
<b>Test Group E – Electrical Verification</b>							
ESD-CDM	JS-002	1 lot, N=>3	Q050773		2	TC 1000 V	Class C3
			Q050641		3	1000 V	Class C3

**Notes:**

1. Parts are Pre-conditioned at MSL2/260°C
2. Performed on 20-QFN-3x3
3. Performed on 32-QFN-5x5

This report applies to the following part numbers:		
EFM8BB51F8G-C-QFN20	EFM8BB52F16G-C-QFN20	EFM8BB52F16G-C-QFN32
EFM8BB51F8G-C-QFN20R	EFM8BB52F16G-C-QFN20R	EFM8BB52F16G-C-QFN32R
EFM8BB51F8I-C-QFN20	EFM8BB52F16I-C-QFN20	EFM8BB52F16I-C-QFN32
EFM8BB51F8I-C-QFN20R	EFM8BB52F16I-C-QFN20R	EFM8BB52F16I-C-QFN32R
EFM8BB51F16G-C-QFN20	EFM8BB52F32G-C-QFN20	EFM8BB52F32G-C-QFN32
EFM8BB51F16G-C-QFN20R	EFM8BB52F32G-C-QFN20R	EFM8BB52F32G-C-QFN32R
EFM8BB51F16I-C-QFN20	EFM8BB52F32I-C-QFN20	EFM8BB52F32I-C-QFN32
EFM8BB51F16I-C-QFN20R	EFM8BB52F32I-C-QFN20R	EFM8BB52F32I-C-QFN32R



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