



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

User Registration

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Qualification Data

Please refer to qualification report below.



EFM8BB5x ASECL Alternate Assy/Test Site Qualification Report

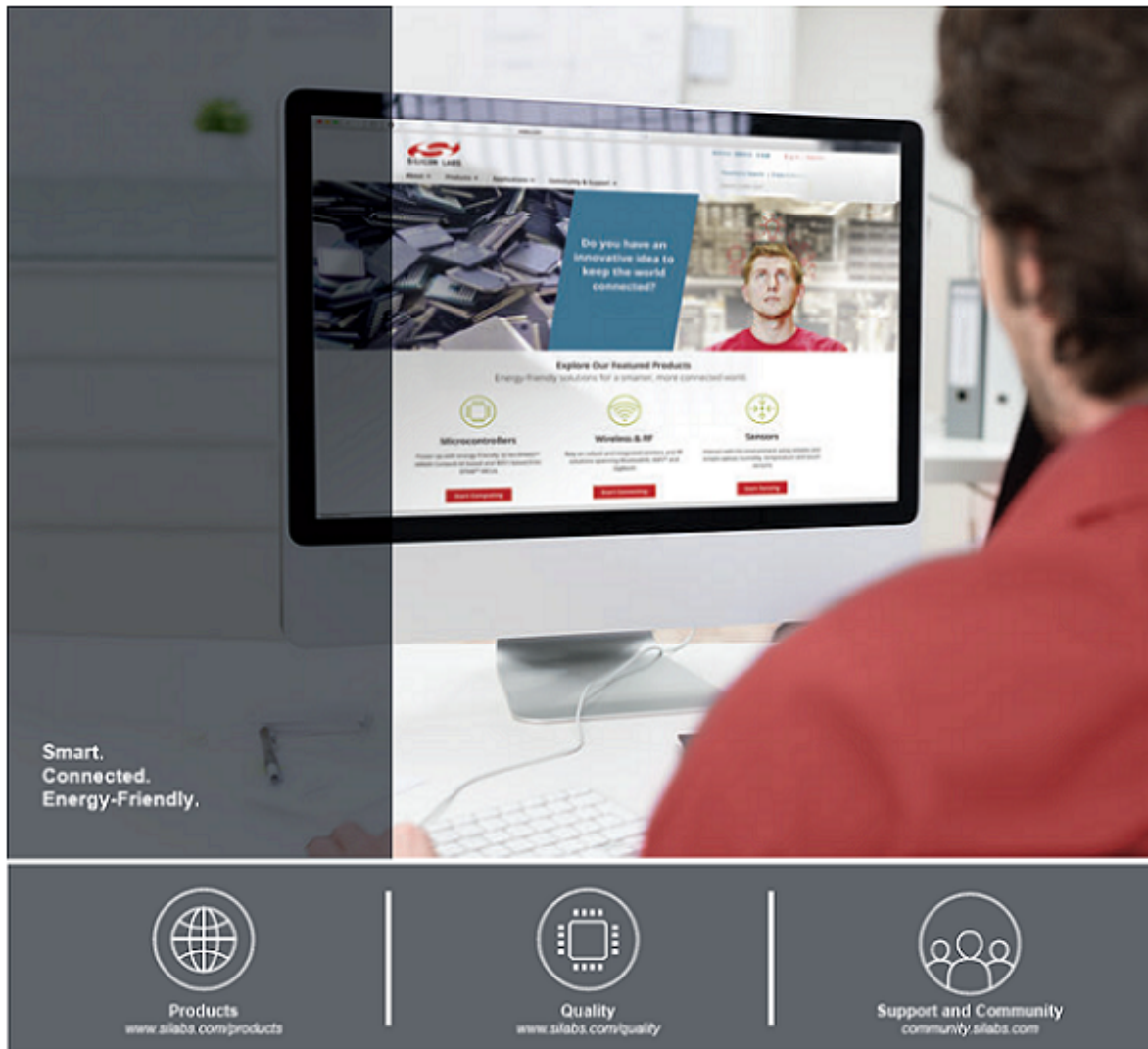
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Part Rev A2, TSMC Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests 20-QFN-3x3							
uHAST	JA118	3 lots, N=>25	Q050737	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		
Test Group A – Accelerated Environment Stress Tests 32-QFN-5x5							
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		
Test Group E – Electrical Verification							
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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