

2406121553 Addendum to 2405011529 Additional Source for EFR32xG21 SoCs

PCN Issue Date: Jun 12, 2024 Effective Date: Aug 07, 2024

PCN Type: Datasheet; Errata; Foundry

Description of Change

This addendum is issued to clarify the change description of PCN 2405011529 issued on May 1st 2024:

As of the effective date of this PCN, Silicon Labs will start shipping EFR32BG21 and EFR32MG21 SoCs from both TSMC and SMIC. All existing OPNs will be available in both revisions "B" and "D" to identify the SoC revision "B" (TSMC) and "D" (SMIC) respectively. To further clarify, this notification is not a discontinuation notice of revision "B".

The original PCN Effective Date remains unchanged at August 7th 2024.

Original Change Description:

Silicon Labs is pleased to announce an additional source for EFR32BG21 and EFR32MG21 SoCs (jointly referred to as xG21) at Semiconductor Manufacturing International Corporation (SMIC). This change is needed to increase capacity to ensure supply continuity due to increased demand for our Wireless SoCs and MCUs.

As of the effective date of this PCN, Silicon Labs will start porting xG21 from TSMC to SMIC. All existing OPNs will be updated by replacing the revision character with "D" to identify the ICs from SMIC foundry.

Updated datasheets:

EFR32BG21 v1.2: https://www.silabs.com/documents/public/data-sheets/efr32bg21-datasheet.pdf EFR32MG21 v1.2: https://www.silabs.com/documents/public/data-sheets/efr32mg21-datasheet.pdf

The main changes:

- Added all Revision D OPNs.
- Capacitive Sense feature of ACMP has been noted as deprecated.
- Merged xG21 (Secure Vault Mid) & xG21B (Secure Vault High) datasheets

Please refer to the datasheet revision history for a complete list of changes.

Updated errata (adds the latest available revision D):

EFR32BG21 v1.0: https://www.silabs.com/documents/public/errata/efr32bg21-errata.pdf EFR32MG21 v1.1: https://www.silabs.com/documents/public/errata/efr32mg21-errata.pdf

Reason for Change

Clarify original change description.

Original Change Reason:

Alternate foundry for capacity expansion.

Impact on Form, Fit, Function, Quality, Reliability

No impact on form, fit, quality or reliability. Impact on function will be explained in errata and an update to the new software that will need to be ported which is explained in the application note "AN1377: EFR32xG21 Revision B to Revision C+ Compatibility and Migration Guide" available at: https://www.silabs.com/documents/public/application-notes/an1377-xg21-revb-to-revc-migration.pdf

Product Identification

Revision B (TSMC) and D (SMIC) will both be available for order.

Existing Part # EFR32BG21A010F1024IM32-D

EFR32BG21A010F1024IM32-DR EFR32BG21A010F512IM32-D EFR32BG21A010F512IM32-DR EFR32BG21A010F768IM32-D EFR32BG21A010F768IM32-DR EFR32BG21A020F1024IM32-D EFR32BG21A020F1024IM32-DR EFR32BG21A020F512IM32-D EFR32BG21A020F512IM32-DR EFR32BG21A020F768IM32-D EFR32BG21A020F768IM32-DR EFR32BG21B010F1024IM32-D EFR32BG21B010F1024IM32-DR EFR32BG21B010F512IM32-D EFR32BG21B010F512IM32-DR EFR32BG21B010F768IM32-D EFR32BG21B010F768IM32-DR EFR32BG21B020F1024IM32-D EFR32BG21B020F1024IM32-DR EFR32BG21B020F512IM32-D EFR32BG21B020F512IM32-DR EFR32BG21B020F768IM32-D EFR32BG21B020F768IM32-DR EFR32MG21A010F1024IM32-D EFR32MG21A010F1024IM32-DR EFR32MG21A010F512IM32-D EFR32MG21A010F512IM32-DR EFR32MG21A010F768IM32-D EFR32MG21A010F768IM32-DR EFR32MG21A020F1024IM32-D EFR32MG21A020F1024IM32-DR EFR32MG21A020F512IM32-D EFR32MG21A020F512IM32-DR EFR32MG21A020F768IM32-D EFR32MG21A020F768IM32-DR EFR32MG21B010F1024IM32-D EFR32MG21B010F1024IM32-DR EFR32MG21B010F512IM32-D EFR32MG21B010F512IM32-DR EFR32MG21B010F768IM32-D EFR32MG21B010F768IM32-DR EFR32MG21B020F1024IM32-D EFR32MG21B020F1024IM32-DR EFR32MG21B020F512IM32-D EFR32MG21B020F512IM32-DR EFR32MG21B020F768IM32-D EFR32MG21B020F768IM32-DR EFR32BG21A010F1024IM32-B EFR32BG21A010F1024IM32-BR EFR32BG21A010F512IM32-B EFR32BG21A010F512IM32-BR EFR32BG21A010F768IM32-B EFR32BG21A010F768IM32-BR EFR32BG21A010X1652IM32-B EFR32BG21A010X1652IM32-BR EFR32BG21A020F1024IM32-B EFR32BG21A020F1024IM32-BR EFR32BG21A020F512IM32-B EFR32BG21A020F512IM32-BR EFR32BG21A020F768IM32-B EFR32BG21A020F768IM32-BR EFR32BG21B010F1024IM32-B EFR32BG21B010F1024IM32-BR EFR32BG21B010F512IM32-B EFR32BG21B010F512IM32-BR EFR32BG21B010F768IM32-B EFR32BG21B010F768IM32-BR

EFR32BG21B010X1653IM32-B EFR32BG21B010X1653IM32-BR EFR32BG21B020F1024IM32-B EFR32BG21B020F1024IM32-BR EFR32BG21B020F512IM32-B EFR32BG21B020F512IM32-BR EFR32BG21B020F768IM32-B EFR32BG21B020F768IM32-BR EFR32BG21B020P1689IM32-B EFR32BG21B020P1689IM32-BR EFR32BG21B020P1693IM32-B EFR32BG21B020P1693IM32-BR EFR32BG21B020P1697IM32-B EFR32BG21B020P1697IM32-BR EFR32BG21B020P1712IM32-B EFR32BG21B020P1712IM32-BR EFR32MG21A010F1024IM32-B EFR32MG21A010F1024IM32-BR EFR32MG21A010F512IM32-B EFR32MG21A010F512IM32-BR EFR32MG21A010F768IM32-B EFR32MG21A010F768IM32-BR EFR32MG21A010M1475IM32-B EFR32MG21A010M1475IM32-BR EFR32MG21A020F1024IM32-B EFR32MG21A020F1024IM32-BR EFR32MG21A020F512IM32-B EFR32MG21A020F512IM32-BR EFR32MG21A020F768IM32-B EFR32MG21A020F768IM32-BR EFR32MG21A020PZ013IM32-B EFR32MG21A020PZ013IM32-BR EFR32MG21A020PZ024IM32-B EFR32MG21A020PZ024IM32-BR EFR32MG21B010F1024IM32-B EFR32MG21B010F1024IM32-BR EFR32MG21B010F512IM32-B EFR32MG21B010F512IM32-BR EFR32MG21B010F768IM32-B EFR32MG21B010F768IM32-BR EFR32MG21B010PZ045IM32-B EFR32MG21B010PZ045IM32-BR EFR32MG21B020F1024IM32-B EFR32MG21B020F1024IM32-BR EFR32MG21B020F512IM32-B EFR32MG21B020F512IM32-BR EFR32MG21B020F768IM32-B EFR32MG21B020F768IM32-BR

Last Date of Unchanged Product: Aug 07, 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

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Qualification Data

See attached.



EFR32xG21x010 Revision D Qualification Report

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| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
|------------------|---------------------------------|-------------------|--------------------|---------------------|-------|---------|---------|
| | ccelerated Environment Stress | s Tests | | | | | |
| HAST | JA110 | | Q048960 | 0/80 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048971 | 0/79 | 1 | 3 lots | Pass |
| | Vcc=3.8V, 96 hours | | Q048975 | 0/80 | 1 | 0/239 | |
| Temp Cycle | JA104 | | Q048962 | 0/80 | 1 | | |
| | Cond C: -65°C to 150°C | 3 lots, N=>25 | Q048973 | 0/79 | 1 | 3 lots | Pass |
| | 500 cycles | | Q048977 | 0/80 | 1 | 0/239 | |
| UHAST | JA110 | | Q048961 | 0/79 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048972 | 0/80 | 1 | 3 lots | Pass |
| | 96 hours | | Q048976 | 0/80 | 1 | 0/239 | |
| HTSL | JA103 | | Q048963 | 0/33 | 1 | | |
| | 150°C, 1000hr | 3 lots, N=>25 | Q048974 | 0/40 | 1 | 3 lots | Pass |
| | | | Q048978 | 0/40 | 1 | 0/113 | |
| | ccelerated Environment Stress | s Tests - ASECL A | ssembly | | | | |
| HAST | JA110 | | Q049957 | 0/80 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048979 | 0/80 | 1 | 3 lots | Pass |
| | Vcc=3.8V, 96 hours | | Q048964 | 0/79 | 1 | 0/239 | -050000 |
| Temp Cycle | JA104 | | Q049959 | 0/80 | 1 | | |
| | Cond C: -65°C to 150°C | 3 lots, N=>25 | Q048966 | 0/80 | 1 | 3 lots | Pass |
| | 500 cycles | | Q048981 | 0/80 | 1 | 0/240 | |
| JHAST | JA110 | | Q049958 | 0/80 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048965 | 0/80 | 1 | 3 lots | Pass |
| | 96 hours | | Q048980 | 0/80 | 1 | 0/240 | |
| HTSL | JA103 | | Q049960 | 0/40 | 1 | | |
| | 150°C, 1000hr | 3 lots, N=>25 | Q048967 | 0/40 | 1 | 3 lots | Pass |
| | | | Q048982 | 0/40 | 1 | 0/120 | |
| Test Group B - A | ccelerated Lifetime Simulation | Tests | | | | | |
| HTOL | JA108 | 3 lots, N=>77 | Q050234 | 0/83 | | 3 lots | Pass |
| | T _J ≥ 135°C, Dynamic | 5 1015, 14-277 | Q050020 | 0/102 | 7 | 0/323 | F 000 |
| | Vcc=3.8V, 1000 hours | | Q050021 | 0/138 | | 2.020 | |



EFR32xG21x010 Revision D Qualification Report

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| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
|---|--|----------------|-------------------------------|---|-------------|--------------------|---------|
| LTOL | JA108 T _A = -10°C, Dynamic Vcc=3.8V, 1000 hours | 1 lot, N=>32 | Q049691 | 0/61 | | 1 lots 0/61 | Pass |
| ELFR | JA108 TJ ≥ 125°C, Dynamic Vcc=3.8V, 48 hours | 3 lots, N=>500 | Q049731 Q050185 Q050302 | 0/541 0/577 0/561 | | 3 lots 0/1679 | Pass |
| NVM Endurance, Retention and Operating Life | JESD22-A117 25°C 500 hours | 3 lots, N=>39 | Q049719 Q049993 Q049992 | 0/40 0/40 0/40 | 2 2 2 | 3 lots 0/120 | Pass |
| NVM Endurance, Retention and Operating Life | JESD22-A117 + JESD22-A103 150°C, 1000 hours | 3 lots, N=>39 | Q049718 Q049899 Q049900 | 0/40 0/40 0/40 | 3 3 3 | 3 lots 0/120 | Pass |
| Test Group E - Ele | ctrical Verification | | | | | | |
| ESD-HBM | JS-001 | 1 lot, N=>3 | Q050115 | | | 3 kV | Class 2 |
| ESD-CDM | JS-002 | 1 lot, N=>3 | Q050191 Q050116 | X . | 4 5 | TC 1000 TC 1000 | Class 3 |
| Latch Up | JESD78 ±100mA | 1 lot, N=>3 | Q050117 Q050118 | 200000000000000000000000000000000000000 | 6 | | Pass |

Notes:

- 1. Parts are Pre-conditioned at MSL2/260°C
- 2. Preconditioned with 10K write/erase cycles at 25°C
- 3. Preconditioned with 10K write/erase cycles at 125°C
- 4. ASECL Assembly
- 5. SPIL Assembly
- 6. Passes ±200mA
- 7. An additional 700 hrs HTOL on 92 units completed successfully to evaluate extended lifetime

| EFR32BG21A010F512IM32-D | EFR32BG21B010F512IM32-D | |
|--------------------------|--------------------------|--|
| EFR32BG21A010F768IM32-D | EFR32BG21B010F768IM32-D | |
| EFR32BG21A010F1024IM32-D | EFR32BG21B010F1024IM32-D | |
| EFR32MG21A010F512IM32-D | EFR32MG21B010F512IM32-D | |
| EFR32MG21A010F768IM32-D | EFR32MG21B010F768IM32-D | |
| EFR32MG21A010F1024IM32-D | EFR32MG21B010F1024IM32-D | |



EFR32xG21x020 Revision D Qualification Report

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| Temp Cycle UHAST HTSL | JA110 130°C, 85%RH Vcc=3.8V, 96 hours | s Tests 3 lots, N⇒25 | Q048960 | | | | |
|--|---|-------------------------|---|-------|---|--------|----------|
| Temp Cycle UHAST HTSL Test Group A – Acce | 130°C, 85%RH Vcc=3.8V, 96 hours | 3 lots, N=>25 | Q048960 | | | | |
| UHAST HTSL Test Group A – Acce | Vcc=3.8V, 96 hours | 3 lots, N=>25 | CD6000000000000000000000000000000000000 | 0/80 | 1 | | |
| UHAST HTSL Test Group A – Acce | 1 | 1 | Q048971 | 0/79 | 1 | 3 lots | Pass |
| UHAST HTSL Test Group A – Acce | JA104 | | Q048975 | 0/80 | 1 | 0/239 | |
| HTSL Test Group A – Acce | | | Q048962 | 0/80 | 1 | | |
| ITSL Test Group A – Acce | Cond C: -65°C to 150°C | 3 lots, N=>25 | Q048973 | 0/79 | 1 | 3 lots | Pass |
| HTSL Test Group A – Acce | 500 cycles | | Q048977 | 0/80 | 1 | 0/239 | 70.000 M |
| Test Group A – Acce | JA110 | | Q048961 | 0/79 | 1 | | |
| Test Group A – Acce | 130°C, 85%RH | 3 lots, N=>25 | Q048972 | 0/80 | 1 | 3 lots | Pass |
| Test Group A – Acce | 96 hours | | Q048976 | 0/80 | 1 | 0/239 | |
| | JA103 | | Q048963 | 0/33 | 1 | | |
| | 150°C, 1000hr | 3 lots, N=>25 | Q048974 | 0/40 | 1 | 3 lots | Pass |
| | | | Q048978 | 0/40 | 1 | 0/113 | |
| HAST | lerated Environment Stress | s Tests - ASECL A | ssembly | | | | |
| | JA110 | | Q049957 | 0/80 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048979 | 0/80 | 1 | 3 lots | Pass |
| | Vcc=3.8V, 96 hours | | Q048964 | 0/79 | 1 | 0/239 | |
| Temp Cycle | JA104 | | Q049959 | 0/80 | 1 | | |
| | Cond C: -65°C to 150°C | 3 lots, N=>25 | Q048966 | 0/80 | 1 | 3 lots | Pass |
| | 500 cycles | | Q048981 | 0/80 | 1 | 0/240 | |
| JHAST | JA110 | | Q049958 | 0/80 | 1 | | |
| | 130°C, 85%RH | 3 lots, N=>25 | Q048965 | 0/80 | 1 | 3 lots | Pass |
| | 96 hours | SAME OF SUCOSES | Q048980 | 0/80 | 1 | 0/240 | |
| HTSL | JA103 | | Q049960 | 0/40 | 1 | | |
| | 150°C, 1000hr | 3 lots, N=>25 | Q048967 | 0/40 | 1 | 3 lots | Pass |
| | | | Q048982 | 0/40 | 1 | 0/120 | |
| Test Group B - Acce | lerated Lifetime Simulation | Tests | | | | | |
| HTOL | JA108 | 3 lots, N=>77 | Q050234 | 0/83 | | 3 lots | Pass |
| | T _J ≥ 135°C, Dynamic | 3 10ts, N=>// | Q050020 | 0/102 | 7 | 0/323 | Pass |
| | | | | | , | 01323 | |
| HTOL | Vcc=3.8V, 1000 hours | | Q050021 | 0/138 | | | |
| | JA108 T _J ≥ 135°C, Dynamic | 222222 | Q050251 Q050139 | 0/83 | 8 | 3 lots | Pass |
| | | 3 lots, N=>77 | | | | | |



EFR32xG21x020 Revision D Qualification Report

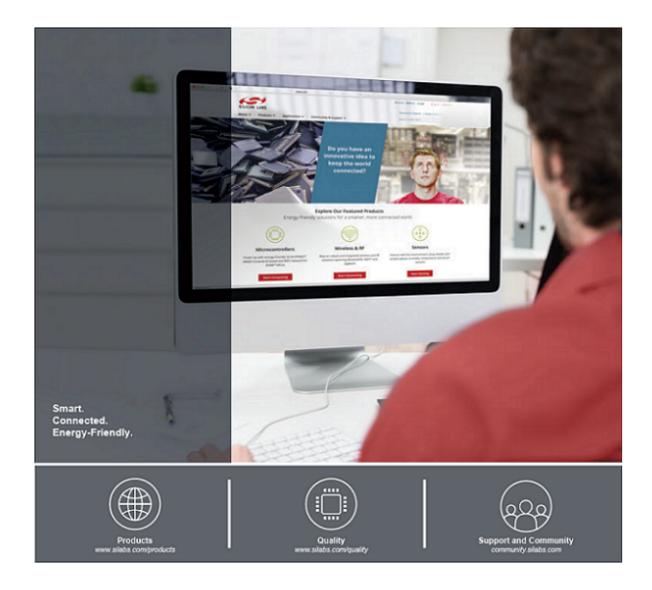
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| Test Name | Test Condition | Qualification | Lot ID or Start | Fail/Pass or End | Notes | Summary | Status |
|---|---------------------------------|----------------|--------------------|--|-------|---------|----------|
| LTOL | JA108 | | | | | | |
| | T _A = -10°C, Dynamic | 1 lot, N=>32 | Q049691 | 0/61 | | 1 lots | Pass |
| | Vcc=3.8V, 1000 hours | | | 200 | | 0/61 | |
| ELFR | JA108 | | Q049731 | 0/541 | | | |
| | TJ ≥ 125°C, Dynamic | 3 lots, N=>500 | Q050185 | 0/577 | | 3 lots | Pass |
| | Vcc=3.8V, 48 hours | | Q050302 | 0/561 | | 0/1679 | |
| NVM Endurance, | JESD22-A117 | | Q049719 | 0/40 | 2 | | |
| Retention and Operating Life | 25°C | 3 lots, N=>39 | Q049993 | 0/40 | 2 | 3 lots | |
| | 500 hours | | Q049992 | 0/40 | 2 | 0/120 | Pass |
| NVM Endurance, Retention and Operating Life | JESD22-A117 + | | Q049718 | 0/40 | 3 | | |
| | JESD22-A103 | | Q049899 | 0/40 | 3 | 3 lots | |
| | 150°C, 1000 hours | 3 lots, N=>39 | Q049900 | 0/40 | 3 | 0/120 | Pass |
| Test Group E – Ele | ctrical Verification | | | | | | |
| ESD-HBM | JS-001 | | | | | | - 111 |
| | | 1 lot, N=>3 | Q050115 | | | 3 kV | Class 2 |
| ESD-CDM | JS-002 | | | | | | |
| | | 1 lot, N=>3 | Q050191 | | 4 | TC 1000 | Class 3 |
| | | | Q050116 | | 5 | TC 1000 | Class 3 |
| Latch Up | JESD78 | 200500 500 | | (5) | 100 | | 1256.000 |
| | ±100mA | 1 lot, N=>3 | Q050117 Q050118 | - 1 Carlotte (Carlotte (Ca | 6 | | Pass |

Notes:

- 1. Parts are Pre-conditioned at MSL2/260°C
- 2. Preconditioned with 10K write/erase cycles at 25°C
- 3. Preconditioned with 10K write/erase cycles at 125°C
- 4. ASECL Assembly
- 5. SPIL Assembly
- 6. Passes ±200mA
- 7. An additional 700 hrs HTOL on 92 units completed successfully to evaluate extended lifetime
- 8. HTOL for 20dBm PA. Actual duty cycle of 20dBm PA is <10% of the device duty cycle, therefore HTOL time is 100 hrs

| This report applies to the following part numbers: | | | | |
|--|--|--|--|--|
| EFR32BG21A020F512IM32-D | EFR32BG21B020F512IM32-D | | | |
| EFR32BG21A020F768IM32-D | EFR32BG21B020F768IM32-D | | | |
| EFR32BG21A020F1024IM32-D | EFR32BG21B020F1024IM32-D | | | |
| EFR32MG21A020F512IM32-D | EFR32MG21B020F512IM32-D | | | |
| EFR32MG21A020F768IM32-D | EFR32MG21B020F768IM32-D | | | |
| EFR32MG21A020F1024IM32-D | EFR32MG21B020F1024IM32-D | | | |
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