



# EZR32 Leopard Gecko EZR32LG Errata

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This document contains information on the EZR32LG errata. The latest available revision of this device is revision C. Errata that have been resolved remain documented and can be referenced for previous revisions of this device. The device data sheet explains how to identify the chip revision, either from package marking or electronically. Errata effective date: November 2019.

## 1. Errata Summary

The table below lists all known errata for the EZR32LG and all unresolved errata in revision C of the EZR32LG.

**Table 1.1. Errata Overview**

Designator	Title/Problem	Workaround Exists	Exists on Revision:		
			A	B	C
ADC_E118	Requirements for ADC_CLK > 7 MHz	Yes	X	X	X
BU_E105	LFXO Missing Cycles During IOVDD Ramping	Yes	X	X	X
CMU_E114	Device Not Waking Up From EM2 When Using Prescaled Non-HFRCO Oscillator as HFCLK	Yes	X	X	X
DAC_E109	DAC Output Drift Over Lifetime	Yes	X	X	X
DMA_E102	2D Copy Corrupted by Ping-Pong or Scatter-Gather Operation on Another Channel	Yes	X	X	X
EMU_E107	Interrupts During EM2 Entry	Yes	X	X	X
EMU_E110	Potential Hard Fault when Exiting EM2 or EM3	Yes	X	X	—
EZR_E101	Latched RSSI Feature May Not Work Properly	Yes	X	X	X
EZR_E102	Increased Harmonics in TX Mode When Using a Direct Tie Match	Yes	X	X	X
EZR_E103	LDC Mode Duty Cycling May Stop After First Packet Reception	Yes	X	X	X
EZR_E104	Auto RX Frequency Hop May Stop Hopping	Yes	X	X	X
EZR_E105	TX to TX Transition Timing May Vary	Yes	X	X	X
EZR_E106	RX Lock-Up May Occur When DSA is Enabled	Yes	X	X	X
EZR_E107	Sync Word Detection Timeout for Non-Standard Preamble May Not Work	Yes	X	X	X
EZR_E108	Invalid Sync Word Hardware Interrupt Prematurely Fires When Antenna Diversity is Enabled	Yes	X	X	X
EZR_E109	Radio Interface Speed	Yes	X	X	X
LES_E104	LFPRESC Can Extend Channel Start-Up Delay	Yes	X	X	X
PCNT_E102	PCNT Pulse Width Filtering Does Not Work	No	X	X	X
RMU_E101	POR Calibration Initialization Issue	Yes	X	X	—
RMU_E102	Regulator Output May Be 0V After Supply Falls to Intermediate Voltage and Recovers	Yes	X	X	—
RMU_E103	Reset May Fail to Trigger During Supply Voltage Brownouts	Yes	X	X	—
TIMER_E103	Capture/Compare Output is Unreliable with RSSCOIST Enabled	No	X	X	X
USART_E113	IrDA Modulation and Transmission of PRS Input Data	Yes	X	X	X
USB_E103	HNP Sequence Fails if A-Device Connects After 3.4 ms	No	X	X	X
USB_E104	USB A-Device Delays the HNP Switch Back Process	No	X	X	X
USB_E105	B-Device as Host Driving K-J Pairs During Reset	No	X	X	X

Designator	Title/Problem	Workaround Exists	Exists on Revision:		
			A	B	C
USB_E109	Missing USB_GINTSTS.SESSREQINT Interrupt with USB_PCGCCTL.STOPPCLK = 1	Yes	X	X	X
USB_E110	Unexpected USB_HCx_INT.CHHLTD Interrupt	Yes	X	X	X

## 2. Current Errata Descriptions

### 2.1 ADC\_E118 — Requirements for ADC\_CLK > 7 MHz

<b>Description of Errata</b>
If operating the ADC_CLK at frequencies greater than 7 MHz, the ADC_BIASPROG register default value of 0x747 may not be sufficient to achieve the published missing codes performance specification.
<b>Affected Conditions / Impacts</b>
Devices operating the ADC_CLK at frequencies greater than 7 MHz while using the default ADC_BIASPROG value of 0x747 may experience performance outside data sheet limits.
<b>Workaround</b>
For systems requiring an ADC_CLK rate > 7 MHz, it may be necessary to increase the ADC's bias current components via the COMPBIAS, BIASPROG, and/or HALFBIAS bit fields in the ADC_BIASPROG register depending on a given application's ADC performance requirements.
<b>Resolution</b>
There is currently no resolution for this issue.

### 2.2 BU\_E105 — LFXO Missing Cycles During IOVDD Ramping

<b>Description of Errata</b>
LFXO missing cycles during IOVDD ramping when used in combination with Backup mode.
<b>Affected Conditions / Impacts</b>
When IOVDD is ramped, the dc-level of the XTAL signal changes, resulting in missed LFXO cycles and possible glitches on the LFXO clock.
<b>Workaround</b>
Set PRESC in BURTC_CTRL to greater than 0 when ramping IOVDD in combination with Backup mode to avoid glitches on the LFXO clock.
<b>Resolution</b>
There is currently no resolution for this issue.

### 2.3 CMU\_E114 — Device Not Waking Up From EM2 When Using Prescaled Non-HFRCO Oscillator as HFCLK

<b>Description of Errata</b>
Device not waking up from EM2 when using prescaled non-HFRCO oscillator as HFCLK.
<b>Affected Conditions / Impacts</b>
If the device is running from any prescaled oscillator other than HFRCO as HFCLK and HFRCO is disabled, the device will not wake up from EM2.
<b>Workaround</b>
Before entering EM2, clear CMU_CTRL_HFCLKDIV. Alternatively, enable HFRCO by setting CMU_OSCENCMD_HFRCOEN and wait until CMU_STATUS_HFRCORDY is set.
<b>Resolution</b>
There is currently no resolution for this issue.

## 2.4 DAC\_E109 — DAC Output Drift Over Lifetime

<b>Description of Errata</b>
The voltage output of the DAC might drift over time.
<b>Affected Conditions / Impacts</b>
When the device is powered and the DAC is disabled, stress on an internal circuit node can cause the output voltage of the DAC to drift over time, and in some cases may violate the $V_{DACOFFSET}$ specification. If the DAC is always enabled while the device is powered, this condition cannot occur.
<b>Workaround</b>
Both in the startup initialization code and prior to disabling the DAC in application code, set the OPAnSHORT bit in DACn_OPACTRL to a '1' for the corresponding DAC(s) used by the application. This will prevent the output voltage drift over time effect.
<b>Resolution</b>
There is currently no resolution for this issue.

## 2.5 DMA\_E102 — 2D Copy Corrupted by Ping-Pong or Scatter-Gather Operation on Another Channel

<b>Description of Errata</b>
When performing a 2D copy (rectangular copy) on one DMA channel, more data than is specified is occasionally transferred from the source buffer if another channel is being used in ping-pong or scatter-gather mode.
<b>Affected Conditions / Impacts</b>
The incorrect number of bytes is transferred during the 2D copy when there is corruption caused by concurrent ping-pong or scatter-gather operation. This would be most noticeable when 2D copy is used for moving a graphic image to a display but could cause problems in other use cases.
<b>Workaround</b>
Do not allow ping-pong or scatter-gather mode DMA transfers to occur concurrently with a 2D copy. If both types operations are required, interleave them such that the 2D copy is complete before enabling a channel in ping-pong or scatter-gather mode or vice versa.
<b>Resolution</b>
There is currently no resolution for this issue.

## 2.6 EMU\_E107 — Interrupts During EM2 Entry

<b>Description of Errata</b>
An interrupt from a peripheral running from the high frequency clock that is received during EM2 entry will cause the EMU to ignore the SLEEPDEEP flag.
<b>Affected Conditions / Impacts</b>
During EM2 entry, the high frequency clocks that are disabled during EM2 will run for some clock cycles after WFI is issued to allow safe shutdown of the peripherals. If an enabled interrupt is requested from one of these non-EM2 peripherals during this shutdown period, the attempt to enter EM2 will fail, and the device will enter EM1 instead. As a result, the pending interrupt will immediately wake the device to EM0.
<b>Workaround</b>
Before entering EM2, disable all high frequency peripheral interrupts in the core.
<b>Resolution</b>
There is currently no resolution for this issue.

## 2.7 EZR\_E101 — Latched RSSI Feature May Not Work Properly

<b>Description of Errata</b>
The Latched RSSI may not be captured properly if the latching instant is based on Tbit/Tsample.
<b>Affected Conditions / Impacts</b>
The Latched RSSI may not be captured properly if the latching instant is based on Tbit/Tsample. In other words, when MODEM_RSSI_CONTROL: Latch = RX_STATE1-RX_STATE5, or MODEM_RSSI_CONTROL: AVERAGE = Sample1 the returned Latched RSSI may be invalid.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

## 2.8 EZR\_E102 — Increased Harmonics in TX Mode When Using a Direct Tie Match

<b>Description of Errata</b>
In TX mode, harmonic content may be excessive due to incorrect LNA configuration when using a direct tie match. Increase of the 3rd harmonic can be as high as 20 dB.
<b>Affected Conditions / Impacts</b>
Increased harmonics levels in the TX spectrum. No impact when operating in RX state or when using a split TX / RX match or a match with an RF switch and single antenna. Both EZRadio and EZRadioPRO parts are affected.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

## 2.9 EZR\_E103 — LDC Mode Duty Cycling May Stop After First Packet Reception

<b>Description of Errata</b>
When LDC (Low Duty Cycling) mode is enabled, the radio may stop receiving packets after the first successfully received packet.
<b>Affected Conditions / Impacts</b>
The chip may stop entering RX state autonomously. Only EZRadioPRO parts are affected.
<b>Workaround</b>
There are two workarounds available. <ol style="list-style-type: none"> <li>1. After reading the RX FIFO, enter Sleep state.</li> <li>2. Apply patch (Patch ID: 0x311A).</li> </ol>
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

## 2.10 EZR\_E104 — Auto RX Frequency Hop May Stop Hopping

<b>Description of Errata</b>
Without any signal present, the radio may stop hopping after a while and stay in receive mode at a seemingly random channel.
<b>Affected Conditions / Impacts</b>
Automatic frequency hopping may stop working. The device is still functional and will respond to subsequent commands from the host. Only EZRadioPRO parts are affected.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

## 2.11 EZR\_E105 — TX to TX Transition Timing May Vary

<b>Description of Errata</b>
RevC2A chips support TX to TX state transitions, however, the amount of time it takes to do so may be inconsistent.
<b>Affected Conditions / Impacts</b>
TX to TX state transition time may vary. Both EZRadio and EZRadioPRO parts are affected. This does not affect the manual TX_HOP timing.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

## 2.12 EZR\_E106 — RX Lock-Up May Occur When DSA is Enabled

<b>Description of Errata</b>
RevC2A chips have a new block, Digital Signal Arrival detector (DSA), which can be used to detect preamble in a very short period of time. The DSA is used for Preamble Sense Mode (PSM) amongst other features, where the chip duty cycles between RX Idle and RX state while searching for a preamble. When the DSA is enabled an RX lock-up may occur.
<b>Affected Conditions / Impacts</b>
RX lock-up may occur. The device is still functional and will respond to subsequent commands from the host. Only EZRadioPRO parts are affected.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

**2.13 EZR\_E107 — Sync Word Detection Timeout for Non-Standard Preamble May Not Work**

<b>Description of Errata</b>
It is possible to configure the device for non-standard preamble (i.e. other than a 1010, or a 0101 pattern), in which case the sync word timeout is controlled by the packet handler. When this feature is enabled, the sync word detection timeout may not work correctly.
<b>Affected Conditions / Impacts</b>
Without a sync word timeout, the chip may continue searching for a sync word instead of going back to searching for non-standard preamble. No impact if standard preamble is used. Only EZRadioPRO parts are affected.
<b>Workaround</b>
Apply patch (Patch ID: 0x311A).
<b>Resolution</b>
Apply the patch (Patch ID: 0x311A) to resolve this problem.

**2.14 EZR\_E108 — Invalid Sync Word Hardware Interrupt Prematurely Fires When Antenna Diversity is Enabled**

<b>Description of Errata</b>
If Invalid Sync Word hardware interrupt is enabled, it may fire right after PREAMBLE_VALID signal without receiving enough number of bits to determine whether or not there is a Sync Word pattern match.
<b>Affected Conditions / Impacts</b>
Invalid Sync Word detect NIRQ hardware interrupt cannot be used when Antenna Diversity is enabled. Only EZRadioPRO parts are affected.
<b>Workaround</b>
Disable Invalid Sync Word detect NIRQ hardware interrupt when Antenna Diversity is enabled.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.15 EZR\_E109 — Radio Interface Speed**

<b>Description of Errata</b>
The USART interface between the radio and MCU is set to run at 8 MHz, and no communication issues have been observed at this speed. However, this speed may violate some of the data sheet specifications for either the MCU or radio. A future version of the stack software will address this by slightly reducing the USART interface speed.
<b>Affected Conditions / Impacts</b>
There are currently no impacts as a result of this issue, as no communication issues have been observed as a result of the 8 MHz interface speed.
<b>Workaround</b>
There is currently no workaround for this issue.
<b>Resolution</b>
There is currently no resolution for this issue.



**2.16 LES\_E104 — LFPRESC Can Extend Channel Start-Up Delay**

<b>Description of Errata</b>
Setting LESENSE_TIMCTRL_LFPRESC to a value other than DIV1 may delay channel start-up longer than the number of LFACLK <sub>LESENSE</sub> clock cycles specified by LESENSE_TIMCTRL_STARTDLY.
<b>Affected Conditions / Impacts</b>
Delaying channel start-up delays the subsequent excitation and measurement phases and may have an impact on the data returned by the LESENSE.
<b>Workaround</b>
If a channel start-up delay is used (LESENSE_TIMCTRL_STARTDLY > 0), LESENSE_TIMCTRL_LFPRESC must be set to DIV1.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.17 PCNT\_E102 — PCNT Pulse Width Filtering Does Not Work**

<b>Description of Errata</b>
PCNT pulse width filtering does not work.
<b>Affected Conditions / Impacts</b>
The PCNT pulse width filter does not work as intended.
<b>Workaround</b>
Do not use the pulse width filter, i.e., ensure FILT = 0 in PCNTn_CTRL.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.18 TIMER\_E103 — Capture/Compare Output is Unreliable with RSSCOIST Enabled**

<b>Description of Errata</b>
The TIMER capture/compare output is unreliable when RSSCOIST is enabled and the clock is prescaled.
<b>Affected Conditions / Impacts</b>
When RSSCOIST is set and PRESC > 0 in TIMERn_CTRL, the capture/compare output value is not reliable.
<b>Workaround</b>
Do not use a prescaled clock, i.e., ensure PRESC = 0 in TIMERn_CTRL when RSSCOIST is enabled.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.19 USART\_E113 — IrDA Modulation and Transmission of PRS Input Data**

<b>Description of Errata</b>
If the USART IrDA modulator is configured to accept input from a PRS channel, the incoming data stream will not be transmitted because the required clock from the baud rate generator is never enabled.
<b>Affected Conditions / Impacts</b>
It is not possible for the USART IrDA modulator to directly transmit data from a source other than the USART's own transmitter. The USART_IRCTRL_IRPRSEN bit should remain at its reset state of 0.
<b>Workaround</b>
Assuming the data to be sent via the PRS is also data that could be received by the EFM32/EFR32 USART, then the data can be received using the USART's PRS RX feature (USART_INPUT_RXPRS = 1), stored in RAM (e.g., using DMA), and then transmitted with IrDA mode enabled. In cases where IrDA operation is transmit-only, the PRS RX data can be received on the same USART doing the transmission. If IrDA operation is bidirectional, then another USART must be used to receive the PRS data.  If the data to be sent is in some other format (e.g., pulses from a timer output), then there is no direct way to transmit it using the IrDA modulator. It would be necessary to capture the data in some other way and reformat it as serial data timed according to the clock generated by the USART.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.20 USB\_E103 — HNP Sequence Fails if A-Device Connects After 3.4 ms**

<b>Description of Errata</b>
HNP Sequence fails if A-Device connects after 3.4 ms.
<b>Affected Conditions / Impacts</b>
The B-Device core only waits for up to 3.4 ms before signalling HNP fail and reverting back to Peripheral mode. Therefore, the HNP sequence fails if the A-Device connects after 3.4 ms.
<b>Workaround</b>
No known workaround.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.21 USB\_E104 — USB A-Device Delays the HNP Switch Back Process**

<b>Description of Errata</b>
The D+ line disconnects after 200 ms, delaying the HNP switch back process.
<b>Affected Conditions / Impacts</b>
The A-Device core delays the HNP switch back process. As per the USB-OTG 2.0 specification, the B-Device on the other side of the USB pipe either should wait for disconnect from the A-Device or should switch to Peripheral mode and wait for the A-Device to issue a USB reset. Hence, there is no significant impact on actual operation.
<b>Workaround</b>
No known workaround.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.22 USB\_E105 — B-Device as Host Driving K-J Pairs During Reset**

<b>Description of Errata</b>
The A-Device misinterprets the K-J pairs as Suspend after switching to High Speed mode.
<b>Affected Conditions / Impacts</b>
If the B-Device as Host on the other side of the USB pipe drives K-J pairs for more than 200 ms during USB reset, the A-Device core exits peripheral state, causing the HNP process to fail. There is no significant impact since normally the host drives USB reset for a shorter time than 200 ms.
<b>Workaround</b>
No known workaround.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.23 USB\_E109 — Missing USB\_GINTSTS.SESSREQINT Interrupt with USB\_PCGCCTL.STOPPCLK = 1**

<b>Description of Errata</b>
A Host-initiated Suspend, followed by a Host Disconnect and Host Connect, will not result in a SessReq interrupt.
<b>Affected Conditions / Impacts</b>
When USB_PCGCCTL.STOPPCLK is set and the device is acting as a B-peripheral, a Host-initiated Suspend, followed by a Host Disconnect and Host Connect, will not result in a SessReq interrupt.
<b>Workaround</b>
If this is an expected use-case, USB_PCGCCTL.STOPPCLK should not be set. USB_PCGCCTL.GATEHCLK can still be used to save power.
<b>Resolution</b>
There is currently no resolution for this issue.

**2.24 USB\_E110 — Unexpected USB\_HCx\_INT.CHHLTD Interrupt**

<b>Description of Errata</b>
In some cases the USB_HCx_INT.CHHLTD interrupt might be incorrectly set.
<b>Affected Conditions / Impacts</b>
In some cases, an unexpected USB_HCx_INT.CHHLTD interrupt might be received from another endpoint that does not have the USB_HCx_CHAR.CHDIS, USB_HCx_INT.XACTERR, USB_HCx_INT.BBLERR, USB_HCx_INT.DATATGLERR, or USB_HCx_INT.XFERCOMPL interrupts enabled.
<b>Workaround</b>
If such an interrupt is received, the application must re-enable the channel for which it received the unexpected USB_HCx_INT.CHHLTD interrupt.
<b>Resolution</b>
There is currently no resolution for this issue.

### 3. Resolved Errata Descriptions

This section contains previous errata for EZR32LG devices.

For errata on the latest revision, refer to the beginning of this document. The device data sheet explains how to identify chip revision, either from package marking or electronically.

#### 3.1 EMU\_E110 — Potential Hard Fault when Exiting EM2 or EM3

<b>Description of Errata</b>
The flash is powered down in EM2 and EM3 to save power. Some control registers in the flash can rarely enter an invalid state upon power-on, causing the first read of flash to be incorrect. If this occurs after exiting EM2 or EM3, the core attempts to fetch the interrupt address, but the value will be incorrect and may be invalid. In the case of an invalid value, the core will then jump to the hard fault handler for attempting to execute code from an invalid address. All subsequent reads from the flash are unaffected, and it is only the first flash read after exit from EM2 or EM3 that is potentially erroneous.
<b>Affected Conditions / Impacts</b>
When exiting EM2 or EM3, some devices may intermittently execute code incorrectly or enter the hard fault handler instead of entering the expected ISR associated with the wake source.
<b>Workaround</b>
To workaround this issue, move the interrupt vector table and interrupt service routines for EM2 or EM3 wake sources to RAM and perform a dummy read of the flash in the ISR. Additional information on the workaround and examples provided is available from the following Knowledge Base article URL:  <a href="https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2017/05/09/emu_e110_-_potential-i2Pn">https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2017/05/09/emu_e110_-_potential-i2Pn</a>
<b>Resolution</b>
This issue has been resolved. Devices with a date code greater than or equal to 1742 will not have this issue.

#### 3.2 RMU\_E101 — POR Calibration Initialization Issue

<b>Description of Errata</b>
Upon initial power-on, some devices may not be able to access flash memory above the 4 kB boundary, or some calibration registers on some devices may not be set to their factory calibration values.
<b>Affected Conditions / Impacts</b>
The list of affected devices can be found in the Knowledge Base (KB) article listed under Fix/Workaround.  Some devices are sensitive to the power supply ramp during initial power-on. Specific ramp profiles on these devices can cause an intermittent issue resulting in one of two failure modes (A) or (B):  A. Flash memory above the 4 kB boundary is inaccessible. Reads of the flash will return zeros. Write attempts will return an invalid address error code in the MSC_STATUS register. Code execution will behave as though the memory above 4 kB was filled with zeros until the device resets itself.  B. Some parts of the calibration initialization process do not complete successfully. On USB devices, the USB voltage regulator does not get calibrated. Specific peripheral registers that may not be calibrated are as follows (not all registers apply to all devices): ADC0_CAL, IDAC_CAL, DAC0_CAL, DAC0_BIASPROG, DAC0_OPACTRL, and DAC0_OPAOFFSET.  A SYSRESETREQ reset will clear either failure mode, and the device will behave normally until the next power-on event.
<b>Workaround</b>
Additional information including a software workaround is available from the following KB article URL:  <a href="https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2015/10/09/rmu_e101_-_por_calib-cEpZ">https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2015/10/09/rmu_e101_-_por_calib-cEpZ</a>
<b>Resolution</b>
This issue has been resolved. Devices with a date code and PROD_REV greater than or equal to 1537 and 0x88, respectively, will not have this issue.

### 3.3 RMU\_E102 — Regulator Output May Be 0V After Supply Falls to Intermediate Voltage and Recovers

<b>Description of Errata</b>
Output of the on-chip regulator (DECOUPLE pin) may be approximately 0 V, and the device will not respond to a pin reset.
<b>Affected Conditions / Impacts</b>
The device supply voltage is specified as 1.98 V minimum. For certain supply waveforms, similar to disconnecting a battery, allowing the supply to decay to approximately 0.9 V (and stopping the decay at approximately 0.9 V), then reconnecting the battery, the output of the regulator (DECOUPLE pin) may be approximately 0 V. In this state, code will not execute, and the device will not respond to a pin reset. More information on this issue can be found at the following KB article URL:  <a href="https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2019/01/09/rmu_e102_por_bodres-AQh7">https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2019/01/09/rmu_e102_por_bodres-AQh7</a>
<b>Workaround</b>
Hold the RESETn pin logic low, starting before the supply is disconnected, and keep RESETn pin logic low until the supply reaches a valid voltage. If the DECOUPLE pin measures approximately 0 V, power cycle the supplies by pulling them all the way to 0 V before connecting supplies again.
<b>Resolution</b>
This issue is resolved in revision C devices.

### 3.4 RMU\_E103 — Reset May Fail to Trigger During Supply Voltage Brownouts

<b>Description of Errata</b>
Reset may fail to trigger when the device supplies (AVDD_0, AVDD_2, VDD_DREG) fall to a voltage in the 1.25 V - 1.45 V range.
<b>Affected Conditions / Impacts</b>
If the device supplies (AVDD_0, AVDD_2, VDD_DREG) fall to a voltage in the 1.25 V - 1.45 V range, the device may fail to reset, allowing code execution while the supply voltage remains in the 1.25 V - 1.45 V range. More information on this issue can be found at the following KB article URL:  <a href="https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2019/01/09/rmu_e103_por_bodres-N3MD">https://www.silabs.com/community/mcu/32-bit/knowledge-base.entry.html/2019/01/09/rmu_e103_por_bodres-N3MD</a>
<b>Workaround</b>
Hold the RESETn pin in logic low, starting before the device supplies fall below 1.6 V, and keep the RESETn pin logic low until the device supplies reach a valid voltage again.
<b>Resolution</b>
This issue is resolved in revision C devices.

## 4. Revision History

### Revision 1.30

November, 2019

- Updated to product revision C.
- Added [ADC\\_E118](#) and [LES\\_E104](#).
- Resolved [RMU\\_E102](#) and [RMU\\_E103](#).
- Migrated to new errata document format.

### Revision 1.20

January, 2019

- Added [DMA\\_E102](#), [RMU\\_E102](#), [RMU\\_E103](#), and [USART\\_E113](#).
- Resolved [EMU\\_E110](#) and updated language to refer to both EM2 and EM3.
- Revision C removed from [RMU\\_E101](#) resolution and workaround URL updated.

### Revision 1.10

April, 2017

- Added [EMU\\_E110](#).
- Updated errata formatting.
- Merged all errata documents for EZR32LG devices into one document.
- Merged errata history and errata into one document.
- Updated to revision B.

### Revision 1.00

October, 2015

- Initial preliminary release.

Silicon Labs

# Simplicity Studio™4



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