

# MAX32650–MAX32652 ERRATA SHEET

## Revision A4 Errata

The errata listed below describe situations where components of this revision perform differently than expected or differently than described in the data sheet. Maxim Integrated Products, Inc. may, at its own discretion, take future steps to correct these errata when the opportunity to redesign the product presents itself. Prior to that, Maxim has determined the following potential workarounds that customers may want to consider when addressing one of the situations described below.

This errata sheet only applies to components of this revision. These components are branded on the topside of the package with a six-digit code in the form yywwRR, where yy and ww are two-digit numbers representing the year and work week of manufacture, respectively, and RR is the revision of the component. To obtain an errata sheet on other die revisions, visit the Maxim website at [www.maximintegrated.com/errata](http://www.maximintegrated.com/errata).

### 1) I<sup>2</sup>S IN SLAVE MODE CAN RECORD INCORRECT DATA IF A PARTIAL WORD IS RECEIVED DURING LEFT-CHANNEL RECEPTION

**Description:**

While in slave mode, receipt of a partial/truncated word in the left data channel loads incorrect data into the I<sup>2</sup>S Rx FIFO.

**Workaround:**

- 1) Do not enable the I<sup>2</sup>S peripheral while an external I<sup>2</sup>S master is transmitting.
- 2) Ensure that an external I<sup>2</sup>S master begins all transmissions with a complete word.

### 2) DEVICE DOES NOT EXIT BACKGROUND MODE IF SYSTEM CLOCK FREQUENCY IS FASTER THAN THE LPCLK FREQUENCY

**Description:**

The device does not exit BACKGROUND mode if the system clock frequency is faster than the LPCLK frequency.

**Workaround:**

The software workaround for this erratum is implemented in the appropriate Maxim-supplied API.

### 3) HYP\_CS1 SIGNAL IS NOT DRIVEN INACTIVE WHILE THE HYPERBUS IS IDLE

**Description:**

The output driver on the HYP\_CS1 pin is disabled when the hyperbus is idle. Devices connected to the HYP\_CS1 signal are not guaranteed to enter their deselected state.

**Workaround:**

Configure the GPIO associated with the HYP\_CS1 pin to input mode with the internal strong/normal pullup enabled. This pulls the HYP\_CS1 signal to its inactive state while the hyperbus is idle.

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### 4) SPI MODE 1 AND MODE 3 OPERATION MAY BE AFFECTED WHEN QSPIn\_CLK\_CFG.SCALE = 0

**Description:**

The following settings are invalid when operation the SPI is operating in mode 1 or mode 3: (13390)  
SCALE=0, CLOCKHI=0, CLOCKLO=0  
SCALE=0, CLOCKHI=1, CLOCKLO=1

**Workaround:**

Do not use the invalid settings. The operating speeds generated by all other field combinations are valid.

### 5) SPIXF BUS IDLE FEATURE CANNOT BE DISABLED

**Description:**

The SPIXF bus idle feature cannot be disabled. (14358)

**Workaround:**

Set the SPIXF\_BUS\_IDLE.busidle to 0x1 to approximate the operation of the SPIXF when the bus idle feature is disabled. This will have minimal effect on sequential code execution.

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### Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	4/20	Initial release	—
1	12/20	Added errata 4 and 5	2

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