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Silicon Errata for CY8CTST110 and CY8CTMG110

This document describes the errata for the TrueTouch devices CY8CTST110 and CY8CTMG110. Details include errata trigger conditions, scope of impact, available workarounds, and silicon revision applicability. Compare this document to the device's data sheet for a complete functional description.

Contact your local Cypress Sales Representative if you have questions.

Part Numbers Affected

Part Number	Ordering Information
CY8CTxx110	CY8CTST110-32LTXI
	CY8CTST110-32LTXIT
	CY8CTST110-00PVXI
	CY8CTMG110-32LTXI
	CY8CTMG110-32LTXIT
	CY8CTMG110-00PVXI

Errata Summary

The following table defines the errata applicability to available CY8CTxx110 family devices.

Items	Part Number	Silicon Revision	Fix Status
[1]. Internal Main Oscillator (IMO) Tolerance Deviation at Temperature Extremes	CY8CTxx110	A	Silicon fix is planned.

1. Internal Main Oscillator (IMO) Tolerance Deviation at Temperature Extremes

- **PROBLEM DEFINITION**
  Asynchronous digital communication interfaces may fail framing beyond 0 to 70°C. This problem does not affect end product usage between 0 and 70°C.
- **PARAMETERS AFFECTED**
  The IMO frequency tolerance. The worst case deviation when operated below 0°C and above +70°C and within the upper and lower data sheet temperature range is ±5%.
- **TRIGGER CONDITION**
  The asynchronous Rx/Tx clock source IMO frequency tolerance may deviate beyond the data sheet limit of ±2.5% when operated beyond the temperature range of 0 to +70°C.
- **SCOPE OF IMPACT**
  This problem may affect UART, IrDA, and FSK implementations.
- **WORKAROUND**
  Implement a quartz crystal stabilized clock source on at least one end of the asynchronous digital communication interface.
- **FIX STATUS**
  The cause of this problem and its solution has been identified. Silicon fix is planned to correct the deficiency in silicon.

References

[1] Document # 001-46931 CY8CTST110 TrueTouch(TM) Single-Touch Touchscreen Controller (Final)
[2] Document # 001-46928 CY8CTMG110 TrueTouch(TM) Multi-Touch Gesture Touchscreen Controller (Final)

Document History

Document Title: Silicon Errata for CY8CTST110 and CY8CTMG110

Document Number: 001-49078

Revision	ECN	Submission Date	Orig. of Change	Description of Change
**	2572224	09/25/08	KRY	IMO tolerance deviation

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