Application Report
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bq20z75 to bq20z75-V160 Change List

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ABSTRACT

This document describes the design considerations required to change a bq20z75 design to a bq20z75-V160 solution. Find the latest ordering information and data sheet on the World Wide Web at: http://power.ti.com.

Introduction

The bq20z75-V160 firmware upgrade has been released to enable several feature additions and corrections.

New orderable part numbers have been released to support this firmware upgraded device.

- bq20z75DBT-V160
- bq20z75DBTR-V160

The latest version of the evaluation software is required to be able to read and write all the data flash configuration locations.

To upgrade a previous version of the bq20z75, use the evaluation software available on power.ti.com and find the latest encrypted program in the web folders. For details on how to update the firmware, please refer to *Updating Firmware With the bq20zxx and EVM* (SLUA336) application note.

Change Details

CHANGE	bq20z75-V160	bq20z75	COMMENTS
Corrected 2 thermistor operation for over temperature condition.	When configured to use 2 thermistors, TS2 will now be able to trigger over temp conditions when its temperature is above the user-defined thresholds.	When configured to use 2 thermistors, the 2nd thermistor, TS2, will not trigger an over-temp condition when its temperature is above the user-defined thresholds. Only TS1 will trigger an over-temp condition.	In 2 thermistor applications, improves safety.
Corrected potential for SBS.Temperature display to get stuck due to partial resets.	Partial resets do not affect the continued operation of the part.	Partial resets due to ESD events, etc. can cause the SBS.Temperature to get stuck and display 127.5C. The errant behavior is dependent on the timing of the partial reset.	Improved handling of SBS.Temperature reporting during intermittent partial resets.

Summary

No dataflash configurations are associated with the specific changes for bq20z75-V160.

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