

bq27510 to bq27510-G1 Change List

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PMP - BMS Handheld

ABSTRACT

This document describes the change made from bq27510 to bq27510-G1. The latest ordering information and data sheet is available on the Texas Instruments (TI) Web site.

Note that bq27510 uses FW version 1.11 and the bq27510-G1 uses FW version 1.12

1 Introduction

The bq27510-G1 firmware (FW) version 1.12 has been released to enable a feature addition. The following new orderable part numbers have been released and ship preprogrammed with the new version of firmware:

- BQ27510DRZR-G1
- BQ27510DRZT-G1

The latest version of the evaluation software is required to be able to read and write all the data flash configuration locations. The necessary evaluation software and the corresponding V1.12 SENC file can be downloaded from the bq27510-G1 product folder on the TI Web site at www.ti.com. Existing bq27510, including evaluation modules (EVM), can be upgraded to the latest firmware version by following the instructions in TI application report [SLUA453](#).

NOTE: If a golden image created for another version of bq27510 is loaded into an integrated circuit (IC) running firmware version 1.12, the IC becomes nonfunctional and must be replaced. Ensure that all instructions in application report *Updating Firmware With the bq2750x and EVM* ([SLUA453](#)) are followed if upgrading ICs or converting your production line to bq27510-G1. The best practice is to generate a new golden image (DFI file) for bq27510-G1.

2 Change Details

Table 1. Change Details

CHANGE	bq27510	bq27510-G1	Comments
Enable I2C 400-kHz mode	I2C only supports 100-kHz mode	I2C support both 100-kHz and 400-kHz modes	Improves I2C communication

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