

BQ28Z610 to BQ28Z610-R1 Change List

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ABSTRACT

The BQ28Z610-R1 hardware enables several feature additions and performance improvements to the BQ28Z610 device, and this document describes the BQ28Z610-R1 additions and features. The *BQ28Z610-R1 Impedance Track™ Gas Gauge and Protection Solution for 1-Series to 2-Series Cell Li-Ion Battery Packs* (SLUSE07), the latest ordering information, and the *BQ28Z610-R1 Technical Reference Manual* (SLUUC81) are available on [TI.com](http://ti.com).

1 Trademarks

Impedance Track™ is the trademark of Texas Instruments.

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2 Introduction

The Texas Instruments BQ28Z610-R1 device is a highly integrated, accurate, 1-series to 2-series cell gas gauge and protection solution, enabling autonomous charger control and cell balancing.

3 Change Details

Table 1. BQ28Z610 to BQ28Z610-R1 Change Descriptions

Change Description	BQ28Z610	BQ28Z610-R1	Comments
Firmware (FW) port to new hardware (HW)	Not present	No feature changes	New hardware to fix an uninitialized pointer at boot-up
Bus low timeout reset of the I ² C engine	Not present	New feature	Hardware reset of the I ² C engine when a bus low signal occurs. A bus low signal is generated when the I ² C clock line is low for bus low timeout.

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