



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**Notification# 20250224002.0  
Datasheet for BQ25620/BQ25622 and BQ25628 / BQ25629**

**Information Only**

**Date:** March 06, 2025  
**To:** MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team  
SC Business Services

**20250224002.0**  
**Information Only Datasheet**  
**Attachments**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

<b>DEVICE</b>	<b>CUSTOMER PART NUMBER</b>
BQ25628RYKR	NULL
BQ25629RYKR	NULL
BQ25622RYKR	NULL
BQ25620RYKR	NULL

Technical details of this Product Change follow on the next page(s).

<b>PCN Number:</b>	20250224002.0	<b>PCN Date:</b>	March 06, 2025
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**Title:** Datasheet for BQ25620/BQ25622 and BQ25628 / BQ25629

**Customer Contact:** Change Management team      **Dept:** Quality Services

**Change Type:** Electrical Specification

### PCN Details

#### Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



**BQ25620, BQ25622**  
SLUSEG2D – SEPTEMBER 2022 – REVISED FEBRUARY 2025

Changes from Revision C (February 2024) to Revision D (February 2025)	Page
• Removed 1.5A and 3A IBAT_PK Settings.....	8
• Changed T <sub>ADC_CONV</sub> Typical values.....	8
• Deleted "The converter is in constant-voltage regulation" from Section 8.3.5.3 .....	25
• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.2 .....	26
• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.3 .....	27
• Updated description of ADC behavior in HIZ Mode in Section 8.3.7 .....	29
• Updated references to BATFET_DLY timing in Section 8.3.9.1 .....	31
• Changed 'VBUS_OVP_STAT' to 'VBUS_FAULT_STAT' in Section 8.3.10.2.1 .....	33
• Updated wait times related to I2C communication in Section 8.5.1 .....	37
• Deleted IBAT_PK 1.5A and 3A Settings in Register Map.....	40
• Added Notes column to Register Map.....	40



**BQ25628, BQ25629**  
SLUSEG4C – DECEMBER 2022 – REVISED FEBRUARY 2025

Changes from Revision B (February 2024) to Revision C (February 2025)	Page
• Removed 1.5A and 3A IBAT_PK Settings.....	8
• Changed T <sub>ADC_CONV</sub> Typical values.....	8
• Corrected description of IBUS_ADC.....	8
• Deleted "The converter is in constant-voltage regulation" from Section 8.3.5.3 .....	25
• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.2 .....	26
• Changed recommended values of RT1 and RT2 in Section 8.3.5.4.3 .....	27
• Updated description of ADC behavior in HIZ Mode in Section 8.3.7 .....	30
• Updated references to BATFET_DLY timing in Section 8.3.9.1 .....	32
• Changed 'VBUS_OVP_STAT' to 'VBUS_FAULT_STAT' in Section 8.3.10.2.1 .....	34
• Updated wait times related to I2C communication in Section 8.5.1 .....	39
• Deleted IBAT_PK 1.5A and 3A Settings in Register Map.....	42
• Added Notes column to Register Map.....	42

The datasheet number will be changing.

Device Family	Change From:	Change To:
BQ25620/BQ25622	SLUSEG2C	<b>SLUSEG2D</b>
BQ25628 / BQ25629	SLUSEG4B	<b>SLUSEG4C</b>

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/BQ25620>

<http://www.ti.com/product/BQ25628>

<b>Reason for Change:</b>			
To accurately reflect device characteristics.			
<b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>			
No anticipated impact.			
<b>Changes to product identification resulting from this PCN:</b>			
None.			
<b>Product Affected:</b>			
BQ25620RYKR	BQ25622RYKR	BQ25628RYKR	BQ25629RYKR

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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