



Azoteq Product Change Notice: IQS263

Issued Date: September 2017

Effective Date: October 2017

PCN Number: ACN_IQS263_01

Product change classification: Minor

1 Azoteq Change Notification Policy

Azoteq appreciates that our customers often have long product life cycles. As Azoteq values our customers' needs, we try to keep our products in production for as long as possible. There are, however, legal, environmental or performance requirements that will sometimes necessitate the need for a running change to a part. We weigh this very carefully against the inconvenience caused to customers already in production.

Azoteq allows customers to request reservations for the final stock quantity that may be available in the warehouses after the final production run. The reservation requests will be assigned on a first come, first serve basis and must be confirmed by a formal order within 7 days of being notified of a successful stock reservation request.

2 Detailed Description of Changes

2.1 Part Number Description Change

The part number will now be known as IQS263B.

2.1.1 MSOP-10/DFN10

Part number	IQS263B
Version number	1
Top marking	IQS263B xtz PWWYY (See datasheet for description)
Bottom marking	None



2.2 Software Changes

The changes from IQS263 to IQS263B consist mainly of software changes. The changes made are listed below.

Bug fixes:

- The ready line known issues as described in paragraph 2.2 of application note AZD088 have been eliminated.
- In event mode, touch/prox events are now updated upon halt timer time-out.
- I2C Timeout is now configurable from 1.28ms to 327.68ms.

Changes:

- The CS capacitor is no longer selectable
- The “Auto Threshold Adjustment (ATA)” feature has been removed.
- An “Off Mode” feature has been added.
- A “Halt Charge” feature has been added.
- Absolute coordinates are now only automatically calculated in “Wheel Mode”.

See the IQS263B datasheet for more information on the added features.

2.3 Internal Hardware Changes

Hardware has been modified for manufacturing yield improvement.

2.4 External Hardware (Mechanical) Changes

None.

3 Impact on Customer Products

- Customers who have used automatically calculated coordinates with 2-channel and 3-channel sliders are advised to switch the device to “Wheel Mode” or perform the coordinate calculation on the MCU. Using a non-wraparound slider in “Wheel Mode” will affect the coordinate range. See chapter 7 of the IQS263B datasheet for more details.
- Customers who have used the device with the small capacitor selected must be aware that only the default large capacitor is now available, this should have no notable effect on the customer’s application. No known applications to date used the alternate option. Customers who have the “CS Cap” bit (bit 6 in ProxSettings 3) set must clear the bit as this bit is now used to put the device into “Off Mode”.
- Customers who have the “ATA” bit (bit 3 in ProxSettings 3) set must clear the bit as this bit is now used for the “Halt Charge” feature.

4 Recommended Action

It is recommended to switch from IQS263 to IQS263B due to the vast improvement in I2C communication from the former to the latter. If any features in use in customer applications have been impacted by the change, customers are encouraged to contact Azoteq in order to obtain support on migration from IQS263 to IQS263B in customer applications.

5 Reference Documents/Attachments

IQS263B Datasheet
AZD088 Application Note



6 Contact Information

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