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## Azoteq Product Change Notice: IQS323

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Issued Date: December 2024

Effective Date: June 2025

\*\*\*PCN-238280-IQS323\*\*\*

### 1 Affected parts

- IQS323 QFN20
- IQS323 DFN12
- Order codes of affected parts:
  - IQS323001DNR
  - IQS323A01DNR
  - IQS323001QFR
  - IQS323002QFR
- Parts not affected: IQS323 WLCSP11.

### 2 Hardware update

Unique IQS SKU's are created by programming an OTP image onto a hardware platform. Multiple IQS SKU's may often share a platform.

The IQS323 **QFN** and **DFN** parts will be moved to the same platform that is qualified for the IQS323 **WLCSP**.

To improve cost effectiveness, the IQS323 parts affected will be produced from the common platform as from the effective date.

The platform update does not affect the IQS323 performance, in any fit, form or function.

#### Impact of the hardware update on IQS323:

- There is a hardware ID change in register 0xE1:
  - Register 0xE1 = 0xF003 for the older affected part
  - Register 0xE1 = 0xF004 for the new part
- The control register for each of the three possible channels (0x32, 0x42, 0x52) are affected by the change:
  - 0xF003: Bit 11 should always be cleared
  - 0xF004: Bit 11 is always set automatically and read-only
- See IQS323 datasheet table A.7 and A.8 for more information on these registers.



### 3 Customer Part Number

The part number “order code” will remain unchanged. The updated stock can be tracked via:

- LOT number
- Product code (“PPP”) – marked on bulk packaging labels
- For the DFN12 only: The top marking changes from IQS3dd to IQS3ed (refer to the datasheet for more marking information).

Please contact Azoteq for detailed information on tracking updated stock for specific parts.

### 4 Hardware compatibility

The changed part will have no negative impact on fit, form or function.

### 5 Recommended Action

It is recommended to change to the updated parts as soon as possible.

Register E1 = to 0xF003 in the \*h (settings) file will be forward compatible to the new platform part. Therefore, no action in SW is required.

Requalification is not essential, however, to adhere to J-STD-46 requirements, samples for validation testing are available.

Older parts will be available for ordering after June 2025 on special request and until current stock is depleted.



## 6 Contact Information

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