



## AZOTEQ PRODUCT CHANGE NOTICE: WT-02 PCN IQS620A

**Issued date: 26 November 2020**  
**Effective date: 26 November 2020**  
**PCN number: ACN\_IQS620A\_02**  
**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 marking description

The part number will remain IQS620A. Changes to the top marking will apply for the new version 3.

##### 2.1.1 DFN10 package

*Table 1: IQS620AzDNR package marking*

	Old	New
<b>Part number</b>	<b>IQS620AzDNR</b>	<b>IQS620AzDNR</b>
Version number (v)	2	3
Top marking*	IQS620AX vi z PWWYY (With v = 2 for version 2 parts)	IQS620AX vi z PWWYY (With v = 3 for version 3 parts)
Bottom marking	None	None

##### 2.1.2 WLCSP9 package

*Table 2: IQS620AzCSR package marking*

	Old	New
<b>Part number</b>	<b>IQS620AzCSR</b>	<b>IQS620AzCSR</b>
Version number (v)	2	3
Top marking*	620A Xzvp ppxx (With v = 2 for version 2 parts)	620A Xzvp ppxx (With v = 3 for version 3 parts)
Bottom marking	None	None

\*Please refer to the latest IQS620A datasheet for detailed marking description.



## 2.2 Device soft information

Table 3: Device information data from registers

Part number	Old	New
	IQS620AzDNR IQS620AzCSR	IQS620AzDNR IQS620AzCSR
Version number (v)	2	3
Product number (Memory map register 0x00)	0x41 / D'65	0x41 / D'65
Software number (Memory map register 0x01)	0x0D / D'13	0x0D / D'13
Hardware number (Memory map register 0x02)	0x82 / D'130	0x92 / D'146

## 2.3 Firmware changes

None.

## 2.4 Calibration test changes

The new version 3 parts are temperature calibrated with a calibration offset value of +40.

Table 4: Temperature output offset value

Part number	Old	New
	IQS620AzDNR IQS620AzCSR	IQS620AzDNR IQS620AzCSR
Version number (v)	2	3
Hardware number (Memory map register 0x02)	0x82 / D'130	0x92 / D'146
Temperature calibration offset value	+100	+40
Temperature UI output [°C] (Memory map registers 0x1A:0x1B [big-endian] minus calibration offset)	16bit value - 100	16bit value - 40

## 2.5 Internal hardware changes

Updated internal IC hardware platform layout revisions for yield improvement.

## 2.6 External hardware (mechanical) changes

None for the DFN10 package.

None for the WLCSP9 package.

## 3 Impact on customer products

Hardware number checking is required to allow both old & new device hardware numbers.

Only customers using the temperature UI output must take care to apply the corresponding offset value for the applicable device version. All other device functionality remains the same.



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