Product Change Notification
GMSL Camera Platform MAX9296A Revision

PCN Number:	CTIU-00054
Revision:	0.00
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1 Product Identification

1.1 Product Data

	Previous Version	New Version
Product Name	NVIDIA® Jetson AGX Xavier™ & AGX Orin™ GMSL Camera Platform	NVIDIA® Jetson AGX Xavier™ & AGX Orin™ GMSL Camera Platform
Part Numbers	JCB002	JCB002
Hardware Revision	D (and up)	D (and up)

	Previous Version	New Version
Product Name	Rudi-AGX Embedded System with NVIDIA® Jetson AGX Xavier™	Rudi-AGX Embedded System with NVIDIA® Jetson AGX Xavier™
Part Numbers	ESG610-XX	ESG610-XX
Hardware Revision	E (and up)	E (and up)

	Previous Version	New Version
Product Name	Rudi-NX Embedded System with NVIDIA® Jetson Xavier™ NX	Rudi-NX Embedded System with NVIDIA® Jetson Xavier™ NX
Part Numbers	ESG602-XX	ESG602-XX
Hardware Revision	D (and up)	D (and up)

1.2 Means of Distinguishing Changed Products

Part Number	☐	
Hardware Revision	☐	
Label	☐	
Other	☑	MAX9296A Register 0x000E (IC Revision)

2 Description and Reason of Change

AVL	☐	Product Improvement	☐
Material	☑	BIOS Release	☐
Assembly Process	☐	Firmware Release	☐
Assembly BOM	☐	Datasheet / Manual	☐
Testing	☐	DFM	☐
Manufacturing Site	☐	Other	☐
Equipment	☐		

2.1   MAX9296A GMSL Deserializer Revision

The MAX9296A GMSL Deserializer has increased its silicon revision. The new silicon modifies the behaviour of some of the on-chip functionalities. Through internal functional testing of the JCB002 GMSL Camera Platform board, we have observed that the start up error behaviour has changed. On MAX9296 Revision 7 (Read from Register 0x000E) and below, an error is thrown on start up which would trigger an LED on the JCB002. On future revisions, an error is no longer thrown on start up, so the LED on the JCB002 does not trigger on start up. This difference is purely cosmetic and will not affect the functional operation of the product or system during usage.

The same behaviour is observed with our Rudi-AGX and Rudi-NX Embedded systems as well, although the LED exists inside of the enclosure so the LED behaviour visibility will be minimal.

3   Impact of change (positive or negative) on fit, form, function & reliability

3.1   Quality and Reliability

In general, the increased revision of the MAX9296A will provide improved quality and reliability. The behavioural difference described in section 2.1 will not affect the Quality and Reliability of the product.

3.2   Software Compatibility

We have observed a difference in some of the error registers on start up. Depending on how pre-existing software has been written, moving forward, you may now have a redundant clearing of error registers upon start up.

3.3   Hardware Compatibility

There is no effect on the hardware compatibility of this product.

3.4   Mechanical Compatibility

There is no effect on the mechanical compatibility of this product.

4   Product / Revision Discontinuation

There is no effect on the Connect Tech Products JCB002, ESG602-XX, and ESG610-XX revisions, however, moving forward, Maxim (Now Analog Devices) will begin phasing out previous revisions of MAX9296A. As such, customers may receive shipments with mixed MAX9296A revisions.

5   Contact Information

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