

1 PCN Information

Title	Product Change Notification		
PCN Number	PCN-2008-MA30-0017	Issue Date (yyyy-mm-dd)	2020-08-13
PCN Revision	1.0	Effective Date (yyyy-mm-dd)	2020-08-13
Refers to Change Order	N/A	Expiration Date (yyyy-mm-dd)	N/A
Refers to Change Request	N/A	Authors	CJR

2 Product Identification

2.1 Product Data

	Pre-Conversion	Post-Conversion
Product Name	conga-MA3	conga-MA3
Product Number P/N	N/A	N/A
Serial Number S/N	N/A	N/A
Lot Number	N/A	N/A
Hardware Revision	N/A	N/A
BIOS Revision	Mx3xR135	Mx3xR138
congatec Board Controller Revision	N/A	N/A

2.2 Means of Distinguishing Changed Products

		Remark
Product Number	<input type="checkbox"/>	
Hardware Revision	<input type="checkbox"/>	
Lot Code	<input type="checkbox"/>	
Label	<input type="checkbox"/>	
Other	<input checked="" type="checkbox"/>	BIOS revision is displayed in the BIOS setup menu and on the POST screen.

3 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input checked="" type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input checked="" type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input type="checkbox"/>	Datasheet/Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input type="checkbox"/>	Other	<input type="checkbox"/>
Equipment	<input type="checkbox"/>		

 Note

Intermediate BIOS releases do not exist.

Mx3xR135 to Mx3xR138

1. Added support for single rank DDR3L memory configurations.
2. Prevent the ACPI_TMP method from reporting negative temperature values because Windows blue screens when temperature is below 0°C.
3. Added additional options for the *LVDS Backlight PWM Frequency* setup node.

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

4.1 Quality and Reliability

The changes listed in section 3 improve the product quality and reliability performance.

4.2 Software Compatibility

Fully software compatible with previous revision.

There are four different conga-MA3 BIOS binaries. This is due to the fact that Intel supports different TXE Firmware Binaries for Bay Trail Atom and Celeron SKUs.

- **MA31R138** must be used for conga-MA3 supporting single channel memory Atom SoCs.
- **MA32R138** must be used for conga-MA3 supporting dual channel memory Atom SoCs.
- **MC31R138** must be used for conga-MA3 supporting single channel memory Celeron SoCs.
- **MC32R138** must be used for conga-MA3 supporting dual channel memory Celeron SoC.

4.3 Hardware Compatibility

Fully hardware compatible with the previous revision.



Note

The change described within this PCN does not affect the functionality of the modules. congatec is not obligated to perform an update on modules that have already been delivered or on modules that are pending delivery unless explicitly mentioned herein. If you have any questions about this matter please contact your local congatec AG representative.

5 Product/Revision Discontinuation

All previous product revisions are set to EOL status (End-Of-Life).

After the release of this PCN there will be a transition time of 6 months whereby a delivery may consist of products based on previous revisions as well as new revisions. After the completion of the transition time, only products based on the new revision will be delivered. This does not include products that fall under the RMA process.

6 Contact Information

congatec Contact	Technical Solution Center
Fax	+49-991-2700-111
eMail	support@congatec.com

7 Customer Acknowledgment of Receipt

congatec AG records indicate that you require written notification of this change. Fill in the acknowledgment below and eMail this document to the eMail address above to request additional information. If congatec AG does not receive acknowledgment within 30 days of this notice it will be assumed that this change is acceptable. congatec AG reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer Name	
Title	
Phone	
Fax	
eMail	

8 Revision History

Revision	Date (yyyy-mm-dd)	Author	Changes
1.0	2020-08-13	CJR	Initial release of document

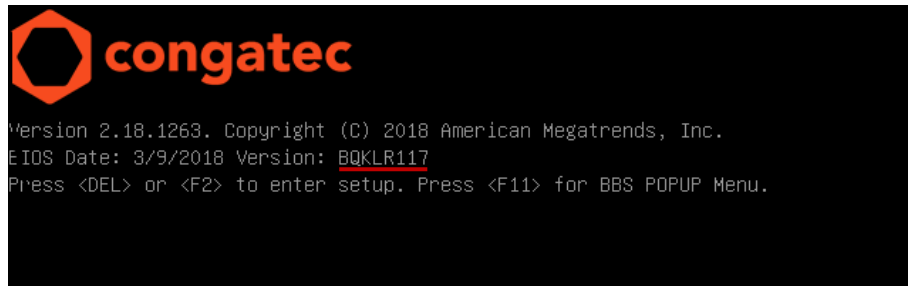
9 Appendix: congatec revision description

The product information can be derived from the congatec product label:



The BIOS can be determined during BIOS POST. The Main BIOS Version, Product Revision, Serial Number and Firmware Revision (Board Controller Firmware) can be determined in the BIOS Setup Utility (Main Menu):

BIOS POST



BIOS Setup Utility

