

1 PCN Information

Title	Product Change Notification		
PCN Number	PCN-2012-TxKL-0007	Issue Date (yyyy-mm-dd)	2020-12-21
PCN Revision	0.1	Effective Date (yyyy-mm-dd)	2020-12-21
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-TS175, conga-TC175	conga-TS175, conga-TC175
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	BxKLR122	BxKLR024
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

***BIOS release R023 was for internal use only.
BIOS releases R023 and R024 are not used for production.***

BxKLR023 to BxKLR024

1. Updated the ME (Management Engine) firmware binary (from 11.8.70.3626 to 11.8.81.3807) to fix Intel security vulnerabilities.
2. Intel Microcode module updated to support MCU revision DEh for Kaby Lake and E2h for Skylake SKUs.
3. Added the BIOS release date to the SMBIOS structure 0.
4. Removed support for SMBIOS type 9 and 41 tables.
5. Removed separate GPIO control and GPI IRQ support modules and added a new combined module that is sharing one setup sub menu.
6. Updated the UefiNetworkStack setup support module to support CGUTIL modifications of these variables.
7. Changed the *Video Option ROM Launch Policy* default to *UEFI ROM Only* so that the IGD GOP Version is correctly displayed on the Platform Information page.
8. Updated several AMI modules to newer versions:
 - Serial console redirection
 - Secure Boot
 - AHCI
 - HddSmart
 - HddSecurity

- TcgStorageSecurity
 - SdioDriver
9. Setup clean up:
 - a. Removed or hid several none supported setup options
 - b. Moved some options to different sub menus
 - c. Disabled SGX by default
 - d. Disabled DIMM1 by default
 - e. Disabled RC6 (Render Standby) by default
 10. Build and default date set to 10.12.2020.

BxKLR122 to BxKLR023

1. Updated AMI BIOS Tree from label 1ATQO045 (Oct. 2017) to 1ATQO079 (Sept. 2019). This update supports MCU revision B4h for Kaby Lake and CCh for Skylake SKUs, Intel ME FW Version 11.8.70.3626 and RAID Driver version Intel(R) RST 17.5.0.4136.
2. Updated to Legacy VBIOS OptionROM to build 9.0.1066 and the UEFI GOP driver to build 9.0.1095.
3. Enabled the *System Acceleration with Intel(R) Optane(TM) Memory feature* by default.
4. Removed the capacity limit for DDR4 16Gb DIMMs.
5. Added BIOS password runtime support also for Windows and Linux OS environment. Previously this was only working in the EFI shell.
6. Added NCT6112D Super I/O support.
7. Fixed an issue with Windows 10 version 1903 whereby the UEFI boot option that is created will be marked as inactive when an existing Windows 10 installation is booted on a new system, resulting in Windows not being able to boot.

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.

BUKLR024.BIN must be used for conga-TC175 product variants with Celeron SKUs.

BVKLR024.BIN must be used for conga-TC175 product variants with Core iX SKUs.

BQKLR024.BIN must be used for conga-TS175 product variants with QM175/CM238 PCH.

BHKLR024.BIN must be used for conga-TS175 product variants with HM175 PCH.

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.

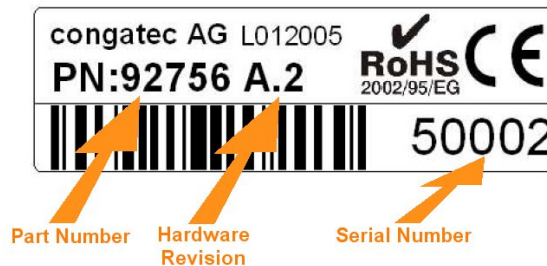
Customer Name	
Title	
Phone	
Fax	
eMail	

8 Revision History

Revision	Date (yyyy-mm-dd)	Author	Changes
0.1	2020-12-21	CJR	Initial release of document.

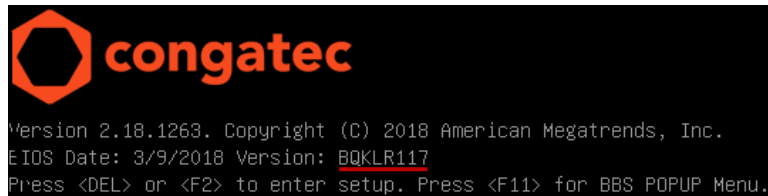
9 Appendix: congatec revision description

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


Version 2.18.1263. Copyright (C) 2018 American Megatrends, Inc.
BIOS Date: 3/9/2018 Version: BQKLR117
Press or <F2> to enter setup. Press <F11> for BBS POPUP Menu.

BIOS Setup Utility

