Product Change Notification
Quark Carrier for NVIDIA® Jetson Modules

PCN Number:	CTIU-00045
Revision:	0.00
Issue Date:	2022-04-25
Effective Date:	2022-04-25

1 Product Identification

1.1 Product Data

Connect Tech has created new FFF (Form-Fit-Function) alternate SKU part number for the Quark Carrier that supports the Jetson Nano, Jetson TX2 NX and Jetson Xavier NX Modules. A new part number has been created to address following issue industry wide supply chain shortages**.** CTI has updated the products shown below, to design in alternative components to ensure acceptable lead-times on product delivery.

Table 1: Affected Carrier Board Products

Description	Original / Previous Part Numbers	New Alternate Part Numbers
Quark Carrier	NGX004	NGX014

A BSP update must be flashed onto the Jetson module to ensure full functionality. If you are unsure which BSP is required for your NGX004 or NGX014, please contact support@connecttech.com.

This change affects integrated SKUs of NGX004-##; which will have compatible replacements NGX014-##. Example NGX004-01 becomes NGX014-01

1.2 Means of Distinguishing Changed Products

		Remark
Product Number	☑	Refer to Section 1.1
Hardware Revision	☑	Refer to Section 1.1 Please contact Sales or Customer Support for details.
Lot Code	☐	N/A
Label	☐	N/A
Other	☐	

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	☐		

1. Due to industry wide supply chain shortages, CTI has updated the existing carrier products shown in section 1.1, to design in alternative components to ensure acceptable lead-times on product delivery.
2. To configure the newly added components, a BSP update for Quark has been released.

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

3.1 Quality and Reliability

There is no change to quality or reliability.

3.2 Software Compatibility

All carriers are functionally compatible with existing and new BSP releases, with a specific limitation as explained below.

Carriers with alternative parts (NGX014), when used with BSP version XAVIER-NX-32.7.1-V001 or older, will have a limited advertised current capacity on the USB Type-C port as shown below.
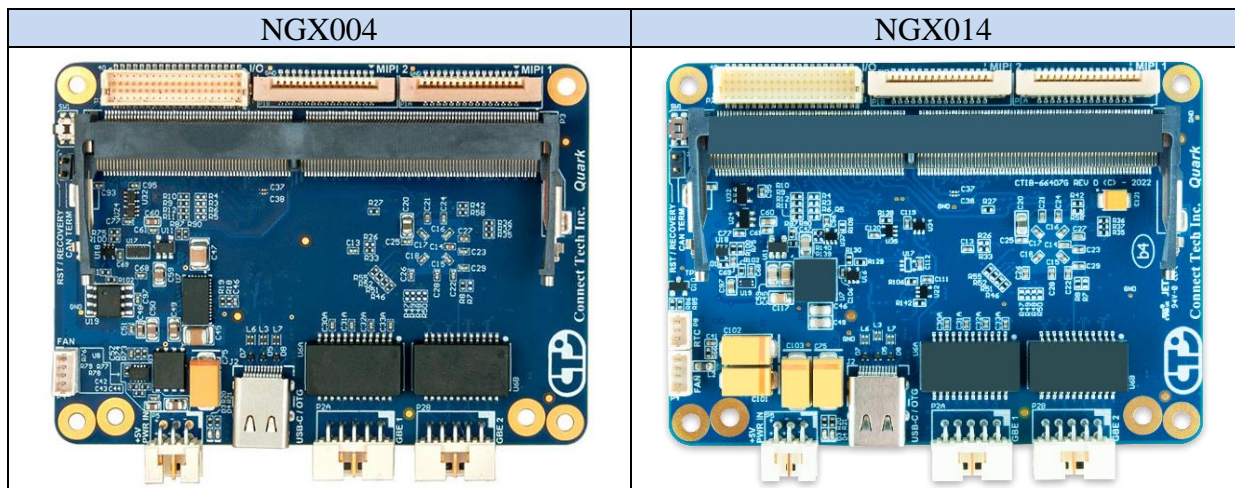
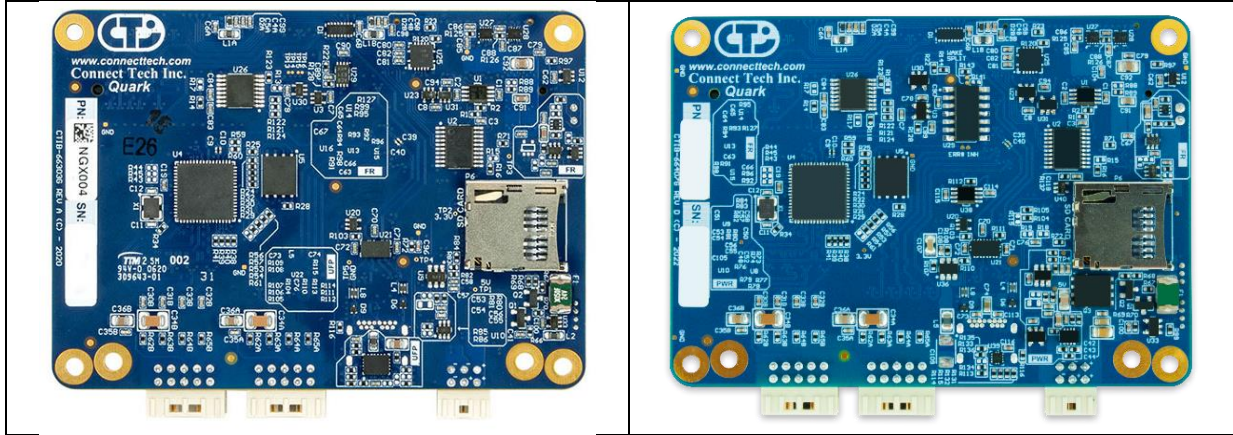| Carrier	Jetson Module	BSP Version #	Advertised USB Capability	Actual USB Capability
NGX014	Xavier NX	XAVIER-NX-32.7.1-V002	1.5A	1.5A
NGX014	Xavier NX	XAVIER-NX-32.7.1-V001 or older	900mA	1.5A
NGX014	Jetson Nano	XAVIER-Nano-32.7.1-V002	1.5A	1.5A
NGX014	Jetson Nano	XAVIER-Nano-32.7.1-V001 or older	900mA	1.5A
NGX014	Xavier TX2-NX	TBD	1.5A	1.5A
NGX014	Xavier TX2-NX	TX2-NX-32.7.1-V002 or older	900mA	1.5A
NGX004	Xavier NX	XAVIER-NX-32.7.1-V002	1.5A	1.5A
NGX004	Xavier NX	XAVIER-NX-32.7.1-V001 or older	1.5A	1.5A
NGX004	Jetson Nano	XAVIER-Nano-32.7.1-V002	1.5A	1.5A
NGX004	Jetson Nano	XAVIER-Nano-32.7.1-V001 or older	1.5A	1.5A
NGX004	Xavier TX2-NX	TBD	1.5A	1.5A
NGX004	Xavier TX2-NX	TX2-NX-32.7.1-V002 or older	1.5A	1.5A

If you are still unsure which BSP is required for your Quark carrier, please contact support@connecttech.com.

3.3 Hardware Compatibility

There is no change to mechanical compatibility.

The NGX014 is fit, form, and function compatible with the NGX004, with the exception of the advertised USB current capacity as noted in the software compatibility section.

NGX004	NGX014

3.4 Mechanical Compatibility

There is no change to mechanical compatibility.

4 Product / Revision Discontinuation

All existing products are still active. Some part numbers have a longer lead-time due to industry wide supply chain shortages.

5 Contact Information

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