



Connect Tech Inc.

Embedded Computing Experts

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Product Change Notification

Boson Carrier for NVIDIA® Jetson Modules

PCN Number:	CTIU-00046
Revision:	0.00
Issue Date:	2022-09-06
Effective Date:	2022-09-06

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1 Product Identification

1.1 Product Data

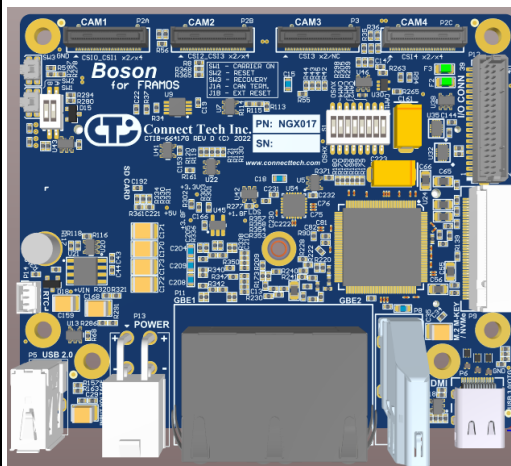
Table 1: Affected Carrier Board Products

	Original Product	New Alternate Product
Product Name	Boson Carrier	Boson Carrier
Part Number	NGX007	NGX017
Integrated Part Numbers	NGX007-##	NGX017-##
Hardware Revision	A-D	D

This change affects integrated SKUs of NGX007-##; which will have compatible replacements NGX017-##. Example NGX007-01 becomes NGX017-01.

1.2 Means of Distinguishing Changed Products

Part Number	<input type="checkbox"/>	Label will now read NGX017
Hardware Revision	<input checked="" type="checkbox"/>	Silk screen will indicate Revision D
Label	<input type="checkbox"/>	
Other	<input type="checkbox"/>	



2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input type="checkbox"/>
Assembly BOM	<input checked="" 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"/>		

Connect Tech has created a new FFF (Form-Fit-Function) alternate SKU part number for the Boson Carrier that supports the Jetson Nano, Jetson TX2 NX and Jetson Xavier NX Modules. Due to industry wide supply chain shortages, an alternative assembly of the Boson Carrier (NGX007) has been created. This alternate (NGX017) uses a different CAN transceiver which results in a lower maximum data rate for that component. The NGX017 also uses a different supervisor IC which results in a lower undervoltage threshold on the 5V rail.

Part Number	Maximum CAN Data Rate	Undervoltage Threshold
NGX007	8 Mbps	4.65V
NGX017	5 Mbps	4.6V

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

3.1 Quality and Reliability

There are negligible differences to the reliability in terms of MTBF calculations.

3.2 Software Compatibility

The NGX017 is fully compatible with drivers and software used for NGX007. No changes are required to the CTI BSP (Board Support Package) between the two products.

3.3 Hardware Compatibility

The NGX017 is functionally compatible with the NGX007. The data rates for the CAN transceiver are reduced, but the component is still appropriate for automotive and industrial applications.

3.4 Mechanical Compatibility

The NGX017 is mechanically compatible for the NGX007. There are no changes to size, shape, or connector position.

4 Product / Revision Discontinuation

The NGX007 will continue to be offered for purchase; however, it may be subject to a longer lead time.

5 Contact Information

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