



# Connect Tech Inc.

## Embedded Computing Experts

[www.connecttech.com](http://www.connecttech.com)

# Product Change Notification

## *Forge Carrier Board for NVIDIA® Jetson AGX Orin™*

<b>PCN Number:</b>	CTIU-00057
<b>Revision:</b>	0.00
<b>Issue Date:</b>	2023-02-10
<b>Effective Date:</b>	2023-02-10

### Connect Tech Inc.

489 Clair Road West, Guelph, ON CANADA N1L 0H7

Tel: 519.836.1291 • North America: 800.426.8979 • Fax: 519.836.4878

sales@connecttech.com • <http://www.connecttech.com>

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## 1 Document Revision History

Revision	Date	Change
0.00	2023-01-27	Initial release

## 2 Product Identification

	Version
<b>Product Name</b>	Forge Carrier Board for NVIDIA® Jetson AGX Orin™
<b>CTI Part Numbers</b>	AGX201
<b>Hardware Revision</b>	All

## 3 Description and Reason of Change

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

The AGX201 product ships with a pre-integrated 10G Ethernet PHY TTP (Thermal Transfer Plate, referred to as XHG322 / CTIA-01256 in the following sections). This much like the NVIDIA JETSON TTP will require additional thermal relief and is not intended to be used as a final thermal solution.

### 3.1 Thermal Details of Dual 10G PHY TTP

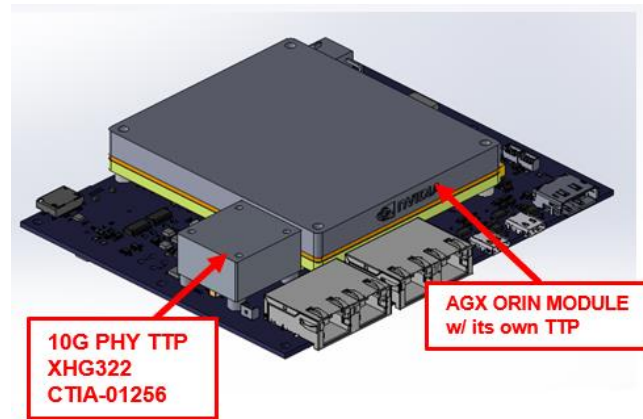
Symbol	Parameter	Test Condition	10G <sub>1</sub>	5G <sub>2</sub>	2.5G <sub>3</sub>	Units
P <sub>TOTAL_MAX_SS</sub>	Power	Steady-State (maximum)	5.704	4.104	2.792	W

1. Maximum supplies, 100 meters CAT 6A, T<sub>J</sub>=108°C
2. Maximum supplies, 100 meters CAT 6A, T<sub>J</sub>=108°C
3. Maximum supplies, 100 meters CAT 6A, T<sub>J</sub>=108°C

**NOTE: Best practice would be to account for a maximum of 6W, and to keep top surface of 10G PHY TTP limited to 80°C**

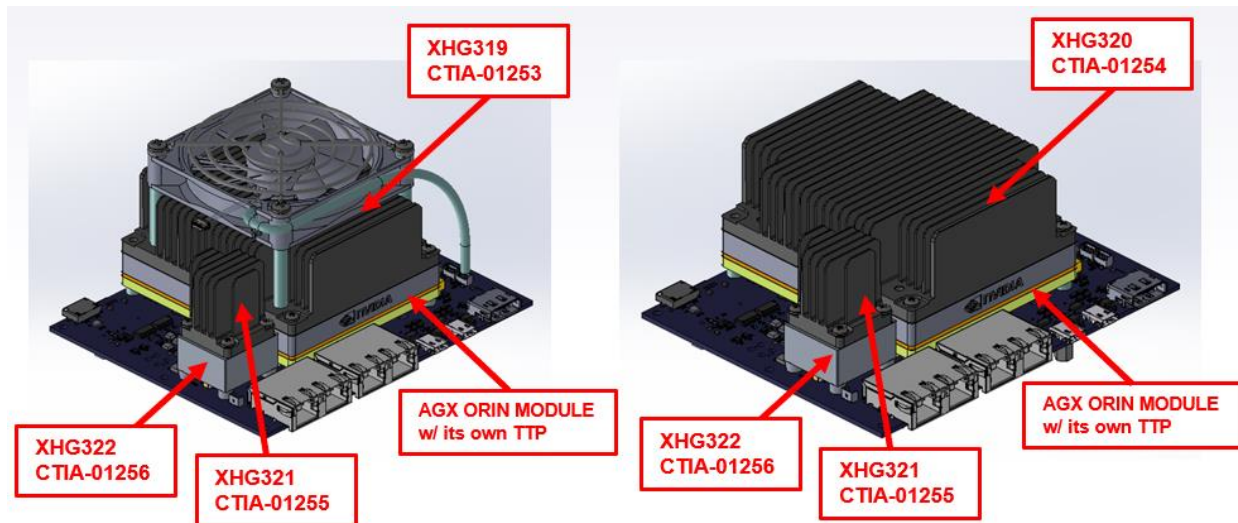
### 3.2 Conduction Cooling Recommendation

For conditioning cooling Connect Tech Recommends to have both the 10G PHY TTP and the NVIDIA Jetson Module TTP attached to a surface that can provide adequate relief to keep top surfaces of both TTPs under 80°C.



### 3.3 Active / Forced Air Cooling Recommendations

For Active and Forced Air Cooling Connect Tech recommends the use of their XHG321 - 10G PHY Finned Heatsink in conjunction with the XHG319 Active or XHG320 Passive Heatsinks as shown below.



*Note: All of the above information will be added to the CTIM-00081 Manual in Revision 0.01 (and beyond)*

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

### 4.1 Quality and Reliability

There is no change to quality or reliability, this PCN is just to provide further information to our customers for providing proper thermal relief in their systems.

### 4.2 Software Compatibility

There is no change to software Compatibility.

### 4.3 Hardware Compatibility

There is no change to Hardware Compatibility, this PCN is just to provide further information to our customers for providing proper thermal relief in their systems.

### 4.4 Mechanical Compatibility

There is no change to Mechanical Compatibility, this PCN is just to provide further information to our customers for providing proper thermal relief in their systems.

If the XHG321 10G PHY Finned Heatsink or any other thermal solutions detailed in this documents are required in your system, please contact [sales@connecttech.com](mailto:sales@connecttech.com) for purchase details.

## 5 Product / Revision Discontinuation

Both connector heights will remain in

## 6 Contact Information

<b>Phone</b>	+1-519-836-1291
<b>Email</b>	<a href="mailto:sales@connecttech.com">sales@connecttech.com</a> <a href="mailto:support@connecttech.com">support@connecttech.com</a>