

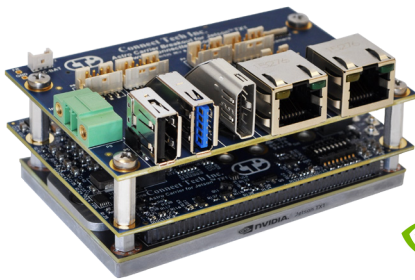
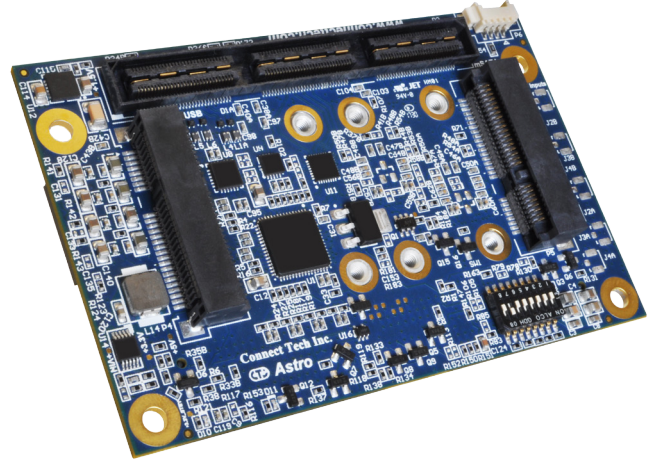


**Connect Tech Inc.**  
Embedded Computing Experts

## Astro Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

Astro is specifically designed to work with the NVIDIA® Jetson™ TX2 or TX1 supercomputer-on-module. The Astro Carrier provides access to features found on the Jetson TX2/TX1 module in an extremely small footprint (87mm x 57mm/3.43" x 2.24"). It makes use of a high density, board-to-board connector that allows for use with Connect Tech's off the shelf or custom designed break out boards.

**Product Name:** Astro Carrier for NVIDIA® Jetson™ TX2/TX1  
**Part Number:** ASG001



Shown with Jetson TX1 module  
and breakout board XBG201



## FEATURES

- ✓ 2 Gigabit (10/100/1000) Ports
- ✓ USB and HDMI Ports
- ✓ Use with COTS or custom break out boards
- ✓ 87mm x 57mm (3.43" x 2.24")
- ✓ Extended Temperature Range -40°C to +85°C (Astro Carrier)

## Specifications

<b>Compatibility</b>	NVIDIA Jetson TX2, NVIDIA Jetson TX1
<b>Dimensions</b>	87mm x 57mm (3.43" x 2.24")
<b>Mini PCIe Expansion</b>	<ul style="list-style-type: none"> <li>• 1x half size card or 1x full length card</li> <li>• PCIe and USB signaling (MiniPCIe)</li> </ul>
<b>Storage</b>	1x mSATA, half size card
<b>USB</b>	<ul style="list-style-type: none"> <li>• 1x USB 3 port</li> <li>• 2x USB 2 ports</li> </ul>
<b>Network</b>	2x Gigabit (10/100/1000) Ports: <ul style="list-style-type: none"> <li>• 1 from the Jetson TX1 Module</li> <li>• 1 from on-board Intel 82574 PHY/Controller</li> </ul>
<b>GPIO</b>	4-bit GPIO
<b>Display</b>	1x HDMI interface
<b>Audio</b>	<ul style="list-style-type: none"> <li>• HD Audio</li> <li>• 1x stereo output</li> </ul>
<b>Serial</b>	2x RS-232/485 hardware selectable ports
<b>Video Input</b>	• 1x MIPI CSI-2 (on breakout board layer)
<b>Misc. External Interfaces</b>	<ul style="list-style-type: none"> <li>• I2C</li> <li>• System Control (PWR and RST buttons, etc.)</li> <li>• RTC battery input</li> </ul>
<b>Connectors</b>	• 90-pin QSH Samtec connector to be mated to Connect Tech Inc. breakout boards
<b>Weight</b>	<ul style="list-style-type: none"> <li>• ASG001 (Astro Carrier): 46 grams (with stand-offs attached)</li> <li>• XBG201 (Breakout Board): 51 grams</li> <li>• Jetson TX2/TX1: 144 grams (with heatsink); 75 grams (without heatsink)</li> </ul>
<b>Environmental<sup>1</sup></b>	-40°C to +85°C (-40°F to +185°F)

[1] The Jetson TX1 Module is rated for -25°C to +80°C (measured at thermal heat plate)