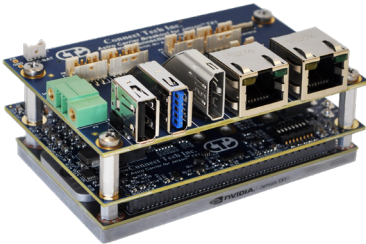




Connect Tech Inc.
Embedded Computing Experts

Astro Carrier for NVIDIA® Jetson™ TX2/TX2i/TX1

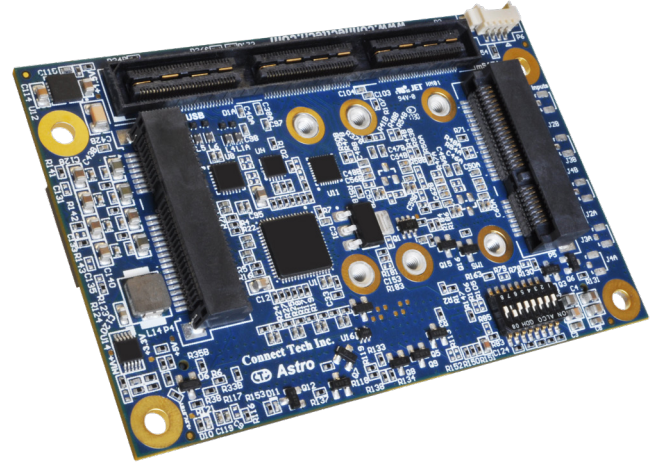
Astro is specifically designed to work with the NVIDIA® Jetson™ TX2, TX2i, or TX1 supercomputer-on-module. The Astro Carrier provides access to features found on the Jetson TX2/TX2i/TX1 module in an extremely small footprint (87mm x 57mm/3.43" x 2.24"). It makes use of a high density, board-to-board connector that allows for use with Connect Tech's off the shelf or custom designed break out boards.



Shown with Jetson TX1 module
and breakout board XBG201



Product Name: Astro Carrier for NVIDIA® Jetson™ TX2/TX2i/TX1
Part Number: ASG001, ASG012



Specifications

Compatibility	NVIDIA Jetson TX2, NVIDIA Jetson TX2i, NVIDIA Jetson TX1
Dimensions	87mm x 57mm (3.43" x 2.24")
Mini PCIe Expansion	<ul style="list-style-type: none"> • 1x half size card or 1x full length card • PCIe and USB signaling (Mini PCIe)
Storage	1x mSATA, half size card
USB	<ul style="list-style-type: none"> • 1x USB 3 port • 2x USB 2 ports
Network	2x Gigabit (10/100/1000) Ports: <ul style="list-style-type: none"> • 1 from the Jetson Module • 1 from on-board Intel 82574 PHY/Controller
GPIO	4-bit GPIO
CAN BUS	1x CAN bus
Display	1x HDMI interface (Supports up to HDMI 2.0 UHD 4K [2160p] at 60Hz)
Audio	<ul style="list-style-type: none"> • HD Audio • 1x stereo output
Serial	2x RS-232/485 hardware selectable ports
Video Input	<ul style="list-style-type: none"> • 1x MIPI CSI-2 (2-lane) • 2x GMSL* • Note: GMSL video inputs only supported on PN: ASG012 with RidgeRun Drivers/Software Support. GMSL Software Info Link: https://developer.ridgerun.com/wiki/index.php?title=MAX96705_MAX9286_GMSL_SERDES_Linux_Drivers Contact: support@ridgerun.com • Power-Over-Coax Not Supported, external power must be provided to GMSL Camera Module
Misc. External Interfaces	<ul style="list-style-type: none"> • I2C • System Control (PWR and RST buttons, etc.) • RTC battery input
Connectors	• 90-pin QSH Samtec connector to be mated to Connect Tech Inc. breakout boards
Weight	<ul style="list-style-type: none"> • ASG001 (Astro Carrier): 46 grams (with stand-offs attached) • XBG201 or XBG206 (Breakout Board): 51 grams • Jetson TX2/TX2i/TX1: 144 grams (with heatsink); 75 grams (without heatsink)
Environmental¹	-40°C to +85°C (-40°F to +185°F)

[1] The Jetson TX1/TX2 Modules are rated for -25°C to +80°C (measured at thermal heat plate)

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)

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