



**Connect Tech Inc.**  
Embedded Computing Experts

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

Connect Tech's Spacely Carrier for NVIDIA® Jetson™ TX2 and Jetson TX1 is an ideal product for unmanned vehicle applications, or any application where situational awareness is critical. Spacely enables users to simultaneously connect up to 6 MIPI CSI-2 cameras as well as offering built-in expansion for a GPS/GNSS module.

This carrier includes a multi-I/O port specifically designed to allow easy connection to OEM Autopilots such as the Pixhawk. Other on-board interconnects include 2x GbE, 1x HDMI, USB 3.0, USB 2.0, USB OTG, as well as miniPCIe and mSATA expansion.

Specifications	
Compatibility	NVIDIA Jetson TX2 NVIDIA Jetson TX1
GPU	Jetson TX2: NVIDIA Pascal™, 256 CUDA cores (Up to 1.3 GHz) Jetson TX1: NVIDIA Maxwell™, 256 CUDA cores (998 MHz)
CPU	Jetson TX2: HMP Dual Denver 2/2MB L2 + Quad ARM® A57/2MB L2 (Up to 2 GHz) Jetson TX1: 64-bit ARM® A57 CPUs
Networking	2x Gigabit Ethernet (10/100/1000 Mbps)
Display Output	1x HDMI 1.4a (microHDMI)
Camera Inputs	• 6 x2 Lane MIPI CSI-2 OR • 3 x4 Lane MIPI CSI-2
USB	2x USB 3.0 Ports 1x USB OTG 2x USB 2.0 1x USB 2.0 to miniPCIe Slot
Storage	1x mSATA Full Sized Slot 1x microSD Card Slot
UART	2x 3.3V from TX2/TX1 UART0 and UART1
I2C	I2C Channel 1 @ 3.3V IO
CAN	1 x CAN 2.0b Port
GPIO	14 bits of 3.3V (level shifted GPIO)
Optional Sensor Expansion	1x GPS/GNSS Module (optional)
User Expansion	1 x miniPCIe Slot with PCIe, USB + SIM
LEDs	GbE LEDs, PWR, S3#
Input Power	Wide Input +12V to +22V DC
SPI	SPI Channel @ 3.3V IO
Dimensions	125mm x 95mm (4.92" x 3.74")
Operating Temperature <sup>1</sup>	-40°C to +85°C (-40°F to +185°F) <sup>1</sup>

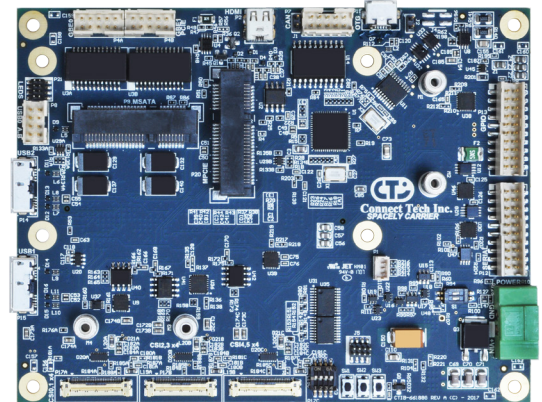
[1] The Jetson TX2/TX1 Module is rated for -25°C to +80°C (measured at thermal heat plate)

**RoHS**

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## Jetson TX2/TX1 SMALL FORM FACTOR CARRIER

**Product Name:** Spacely Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1  
**Part Number:** ASG006



## FEATURES

- ✓ Connect up to 6 MIPI CSI-2 Camera Inputs
- ✓ Tailored IO for easy connection to Pixhawk Autopilot
- ✓ 2x GbE, 1x uHDMI, 2x USB 3.0, 2x USB 2.0, 1x USB OTG, 1x miniPCIe Slot, mSATA Slot
- ✓ 2x UART, I2C, SPI, 14 GPIO all at +3.3V IO
- ✓ Extended Temperature Range -40°C to +85°C (Spacely Carrier)

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