



**Connect Tech Inc.**  
Embedded Computing Experts

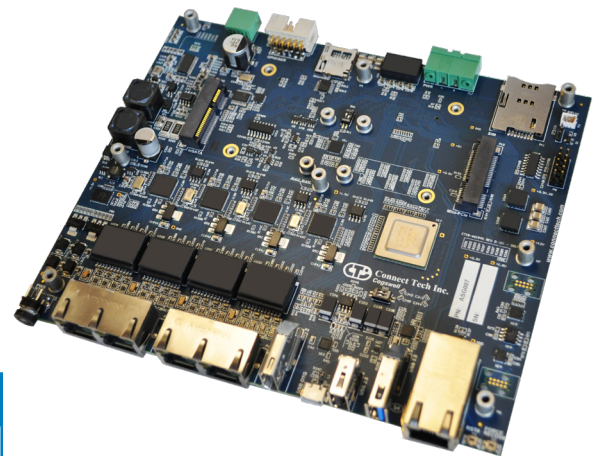
# Jetson TX2/TX2i/TX1 SMALL FORM FACTOR CARRIER

## Cogswell Carrier for NVIDIA® Jetson™ TX2/TX2i/TX1

Connect Tech's Cogswell Carrier for NVIDIA® Jetson™ TX2, TX2i, and TX1 is ideal for use in Gigabit Ethernet Vision applications. This product provides Gigabit Ethernet channels with built-in Power over Ethernet (PoE) sourcing capabilities, ideal for use with GigE Vision cameras.

Cogswell's design includes a total of 5 Gigabit Ethernet Ports. Four of these ports can be used for IEEE 802.3af (PoE) 15.4W power sourcing or two of these ports can be used for IEEE 802.3at (PoE+) 25.5W power sourcing. Additionally the Cogswell Carrier also enables HDMI Video, USB 3.0, USB 2.0, USB OTG, Mini-PCIe/mSATA expansion, and two RS-232 Serial Ports.

**Product Name:** Cogswell Carrier for  
NVIDIA® Jetson™ TX2/TX2i/TX1  
**Part Number:** ASG007



### Specifications

Compatibility	NVIDIA Jetson TX2, NVIDIA Jetson TX2i, NVIDIA Jetson TX1
GPU	Jetson TX2/TX2i: NVIDIA Pascal™, 256 CUDA cores (Up to 1.3 GHz) Jetson TX1: NVIDIA Maxwell™, 256 CUDA cores (998 MHz)
CPU	Jetson TX2/TX2i: HMP Dual Denver 2/2MB L2 + Quad ARM® A57/2MB L2 (Up to 2 GHz) Jetson TX1: 64-bit ARM® A57 CPUs
Networking	5x Gigabit Ethernet Ports • 4 x IEEE 802.3af (POE) 15.4W PSE Gigabit Ethernet Ports OR • 2 x IEEE 802.3at (POE+) 25.5W PSE Gigabit Ethernet Ports
Display Output	1 x HDMI 1.4a (Type-A vert RA) (Supports up to HDMI 2.0 UHD 4K [2160p] at 60Hz)
USB	1 x USB 3.0 Port (Type-A); 1 x USB OTG (Micro-AB); 1 x USB 2.0 (Type-A); 1 x USB 2.0 to miniPCIe Slot
Storage	1 x mSATA Full Sized Slot 1 x microSD Card Slot
UART	2 x RS-232
I2C	I2C Channel 1 @ 3.3V IO
CAN	1 x CAN 2.0b Port
GPIO	4 bits of 3.3V (level shifted GPIO)
User Expansion	1 x miniPCIe Slot with PCIe & USB
LEDs	GbE LEDs, RESET#_OUT, PSU PGOOD
Input Power	+12 DC Input Only No external 48V is required, carrier creates its own PoE power
Dimensions	178mm x 147.5mm (7.007874" x 5.807087") Designed to fit into OEM enclosure
Buttons	Power, Reset, Recovery
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)

### FEATURES

- ✓ Specifically designed for use with GigE Vision Cameras
- ✓ 5 x Gigabit Ethernet Channels  
4 x PoE, 2 x PoE+ PSE Gigabit Ports
- ✓ Only a single +12V input required;  
No external 48V PoE power required
- ✓ 1 x USB 3.0, 1x USB 2.0, 1x USB OTG,  
2x RS-232, 1x miniPCIe, 1x mSATA
- ✓ Extended Temperature Range  
-40°C to +85°C

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