



Connect Tech Inc.
Embedded Computing Experts



Partnering Together - Creating Excellence

Astro

Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

Astro is specifically designed to work with the NVIDIA® Jetson™ TX2/TX1 supercomputer-on-module. Astro Carrier provides a platform that is easily customized for application specific needs.

Features

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



Elroy

Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

Elroy Carrier for NVIDIA® Jetson™ TX2/TX1 brings a rugged, low profile Jetson™ TX2/ TX1 Solution to the market. Designed to match the NVIDIA Jetson module form factor, the Elroy's design includes Dual x2 MIPI CSI-2 Video Inputs, Mini-PCIe/mSATA expansion, HDMI Video, USB 3.0 and 2.0, and two Serial Ports for RS-232/485.

Features

- Extremely Small Size: 87mm x 50mm (3.425" x 1.968")
- Head-to-Head Dual Mini-PCIe
- Dual x2 MIPI CSI-2 Video Inputs
- Temperature Range, -40°C to +85°C (Elroy Carrier)



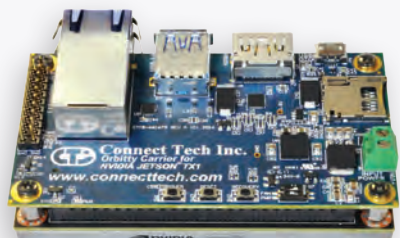
Orbitty

Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

Orbitty Carrier for NVIDIA® Jetson™ TX2/TX1 is designed to match the NVIDIA Jetson module form factor. The Orbitty's design includes 1x USB 3.0, 1x USB 2.0 OTG, 1x HDMI, 1x GbE, 1x microSD, 2x 3.3V UART, I2C, and 4x GPIO. Ideal for robotics and unmanned applications or any small form factor rugged environment.

Features

- Extremely Small Size: 87mm x 50mm (3.425" x 1.968")
- 1x GbE, USB 3.0, USB 2.0, 1x HDMI, 1x MicroSD, 2x 3.3V UART, I2C, 4x GPIO
- +9V to +14V DC Nominal (+19V Peak)
- Temperature Range, -40°C to +85°C (Orbitty Carrier)



Sprocket

Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

NEW!

Sprocket Carrier for NVIDIA® Jetson™ TX2 and Jetson TX1 is designed to match the NVIDIA Jetson module form factor. The Sprocket's design includes 1x USB OTG, 1 x4 lane MIPI CSI-2, 2x 3.3V UART, 2x I2C, and 4x GPIO. This is our smallest and lowest profile solution yet. The Sprocket with Jetson TX1 or Jetson TX2 can be mounted flat, perfect for space constrained payloads such as that of a drone.

Features

- Extremely Small Size: 87mm x 50mm (3.425" x 1.968")
- 1x USB OTG, 1 x4 lane MIPI CSI-2 Input, 2x 3.3V UART, I2C, 4x GPIO
- +12V to +16V DC Input Range
- Temperature Range, -40°C to +85°C (Sprocket Carrier)



Cogswell

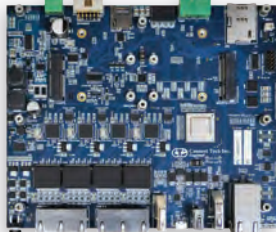
Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

NEW!

Cogswell Carrier for NVIDIA® Jetson™ TX2 and Jetson TX1 is ideal for use in Gigabit Ethernet Vision applications. This product provides up to 4 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.

Features

- Specifically designed for use with GigE Vision Cameras
- Only a single +12V input required; No external 48V PoE power required
- 5 x Gigabit Ethernet Ports: 4x PoE, 2x PoE + PSE Gigabit Ports
- Temperature Range, -40°C to +85°C (Cogswell Carrier)



Spacely

Carrier for NVIDIA® Jetson™ TX2 and Jetson™ TX1

NEW!

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 capture from 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.

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 bits GPIO all at +3.3V IO
- Temperature Range, -40°C to +85°C (Spacely Carrier)



Rudi

NEW!

Embedded system based on the NVIDIA® Jetson™ TX2 or Jetson™ TX1

Rudi holds a lot of power in a small package. Rudi is pre-integrated with the NVIDIA® Jetson™ TX2/TX1 supercomputer-on-module, providing 256 CUDA® cores on the NVIDIA Maxwell™ or Pascal™ architectures. The system has 4GB LPDDR4 memory, 4K video decode/encode, WiFi, Bluetooth, USB 3.0, CAN 2.0b, USB 2.0, and mSATA and miniPCIe expansion. Multiple mounting options available.

Features

- 256 CUDA cores with NVIDIA® Maxwell™/Pascal™ GPU Architecture
- USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- Extremely small footprint 135mm x 50mm x 105mm
- Temperature Range, -20°C to +80°C
- Fanless System



Rosie

Embedded system based on the NVIDIA® Jetson™ TX2 or Jetson™ TX1

Rosie is a small form factor, rugged embedded system based on the NVIDIA® Jetson™ TX2/Jetson TX1. Housed in a rugged compact enclosure with optional mounting brackets, Rosie features revolutionary NVIDIA® Maxwell™ or Pascal™ GPU with 256 NVIDIA® CUDA® Cores delivering over 1 TeraFLOP of performance with a Quad-core ARM® Cortex®-A57 MPCore Processor.

Features

- 163.6mm x 108.0mm x 96.3mm (6.438" x 4.250" x 3.790")
- 1x HDMI, 2x GbE, 2x USB 2.0, IEEE 802.11 ac, 1x RS-232
- +9V to +36V Power Input
- Tested to MIL-STD 810g and DO-160G for shock and vibration
- Designed to IP68 ingress protection rating
- Temperature Range -20°C to +80°C
- Fanless System



GraphiteVPX/CPU-TX2/TX1

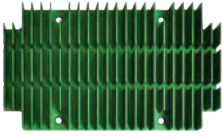
Connect Tech's GraphiteVPX/CPU-TX2/TX1 is a VITA 65 compliant 3U VPX single board computer that brings the NVIDIA® Jetson™ TX2/ TX1 embedded computing platform to the VPX form factor.

Features

- 256 CUDA cores with NVIDIA® Maxwell™/Pascal™ GPU Architecture
- Conduction cooled
- The onboard PCIe Gen 3.0 switch supports two x4 port dataplane connections
- Temperature Range -40°C to +70°C



NVIDIA® Jetson™ TX2/TX1 Thermal Solutions



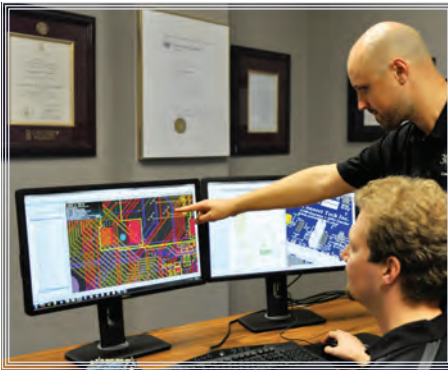
Passive Heat Sink



Active Heat Sink

- Complete your system's thermal solution with CTI's custom designed heat sinks
- Active and Passive solution designed to attach directly to the NVIDIA® Jetson™ TX2/TX1
- Dimensions: 87mm x 57mm x 16mm / 3.43" x 2.24" x 0.63"

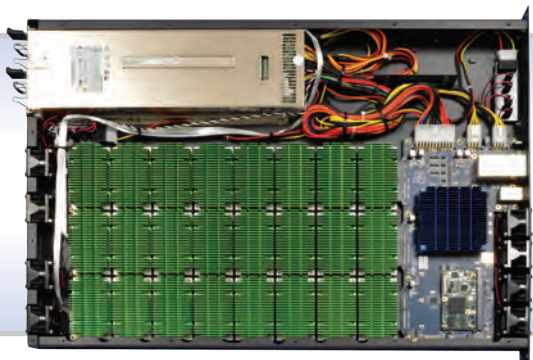
Connect Tech Design Services



Backed by over 30 years in business, Connect Tech has built a solid reputation of expertise in providing engineering design services, delivering unsurpassed technical support, and developing innovative products for embedded

applications. Connect Tech is proud to feature an exciting family of products offering rugged small form factor solutions for the **NVIDIA® Jetson™ TX2/TX1** modules as well as Custom Design Services.

From Small Rugged solutions to 24 x TX2/TX1 Super Computers, we are the design team for your next Jetson™ project.



- USES Integrated UTX1AS Cluster Server -

For more information, or to discuss a custom solution, email us at sales@connecttech.com



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