Connect Tech Inc.
Embedded Computing Experts
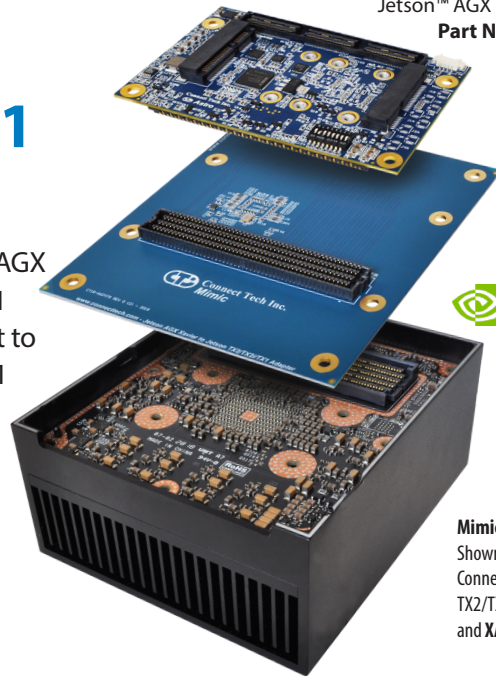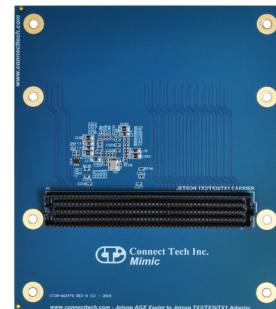
Mimic - NVIDIA® Jetson™ AGX Xavier™ to TX2/TX2i/TX1 Adapter

The Mimic Adapter from Connect Tech allows the NVIDIA® Jetson™ AGX Xavier™ module to be installed onto an NVIDIA Jetson TX2/TX2i/TX1 carrier. The Mimic Adapter is ideal for NVIDIA Jetson users who want to easily compare performance or upgrade their existing TX2/TX2i/TX1 designs to the new Jetson Xavier.

This small form factor adapter solution integrates easily onto any existing carrier board in Connect Tech's Jetson TX2/TX2i/TX1 product line, as well as any custom platform. Mimic Adapter allows users to immediately gain access to Jetson AGX Xavier's impressive 20x compute performance increase and 10x energy efficiency improvement from the Jetson TX2. Enables a giant leap forward in capabilities for autonomous machines and edge devices.

Mimic -
Shown integrated with Connect Tech's **Elroy** TX2/TX2i/TX1 Carrier Board (top) and **XAVIER** module (bottom).

Mimic - AGX001

Specifications

Adapter Function	Allows the NVIDIA® Jetson™ AGX Xavier™ module to be installed on to any NVIDIA® Jetson™ TX2/TX2i/TX1 Carrier Board
NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson™ AGX Xavier™
Carrier Board Compatibility	Any Carrier Board designed for NVIDIA® Jetson™ TX2/TX2i/TX1
Jetson Xavier Interfaces Passed to TX2/TX2i/TX1 Carrier	• 2x USB 2.0 • 3x USB 3.0* • 3x PCIe x1* • 1x PCIe x4* • 1x SATA* • 6x 2-lane CSI / 3x 4-lane CSI • 2x eDP/DP/HDMI • 2x DSI Output • 1x Gigabit Ethernet** • 1x SDIO • 2x CAN • 8x I2C • 5x UART • 3x SPI • All GPIO and Misc system control available on TX2/TX2i/TX1
Ethernet	SGMII 1GBE PHY contained on Adapter
Input Power	Adapter automatically regulates and distributes the TX2/TX2i/TX1 Carrier Board VDD_IN to the Xavier SYS_VIN_HV/MV
PCB / Electronics Mechanical Information	92mm x 105mm Compatibility with both Development and Production modules.
Operating Temperature	-40°C to +85°C (-40°F to +185°F)

* Based on TX2/TX1 Lane Mapping Configuration
** Passed to on-adapter SGMII PHY

FEATURES

✓ *Install NVIDIA® Jetson™ AGX Xavier™ on any NVIDIA® Jetson™ TX2/TX2i/TX1 Carrier Board*

✓ *Easily compare performance between TX2 and AGX Xavier on your current hardware platform*

✓ *Wide range of Xavier interfaces passed to TX2/TX2i/TX1 carrier*

✓ *Dimensions: 92mm x 105mm (3.62" x 4.13")*

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