Connect Tech

ROGUE-X2 CARRIER BOARD
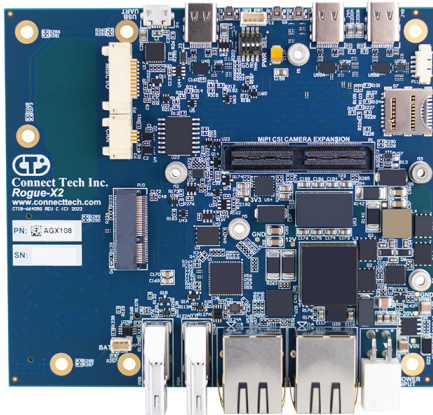
FOR NVIDIA® JETSON AGX XAVIER™

Rogue-X2 is a full featured carrier board specifically designed for commercially deployable platforms.

The Rogue-X2 allows for the Jetson AGX Xavier™ to interface up to a PCI Express x8 Edge Connector (PCIe Gen3). In addition, the Rogue-X2 can also interface to 3x USB 3.1, 2x GbE, 2x HDMI and a locking Mini-Fit Jr. power input connector.

NVIDIA ELITE PARTNER

Rogue-X2 is an ideal fit for those looking to interface with a high-speed PCI Express x8 connector.

FEATURES

✓ Commercially deployable NVIDIA® Jetson AGX Xavier™ platform

✓ 1x PCI Express x8 Edge Connector (PCIe Gen3)

✓ Wide input power range 9-19V DC

✓ 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs

✓ 1x M.2 M-Key NVMe PCIe x2, 3x USB 3.1, 2x GbE

✓ Dimensions: 119.5mm x 105mm

SPECIFICATIONS

NVIDIA GPU SoC Module Compatibility	NVIDIA® Jetson AGX Xavier™	**Networking**	2x Gigabit Ethernet (RJ45) - 1 port from RGMII PHY (direct from module) - 1 port from a PCIe I210 MAC/PHY
Display Output	2x HDMI 1.4a (Type A)	**Camera Inputs**	• 6x two lane MIPI CSI-2 or • 4x four lane MIPI CSI-2 • using a 120 pin (dev kit compatible) QSH expansion connection
USB	3x USB 3.1 5Gbps/10Gbps (Type C – OTG mode 1 port) (Note only 2 interfaces can be used at 10Gbps simultaneously)	**Storage**	1x M.2 Key-M (NVMe) expansion slot (4 lane PCIe Gen 3) 1x microSD or UFS card slot
UART	2x @3.3V UART1 and UART2 1x USB based Debug UART3 (microUSB AB connector)	**I2C/SPI**	1x I2C Channel @ 3.3V IO 1x SPI Channel @ 3.3V IO
CAN	2x CAN 2.0b Port	**GPIO**	4x @3.3V GPIO (direct from module)
User Expansion	• 1x M.2 Key-E expansion slot (1 lane PCIe Gen 3, USB 2.0) • For WiFi/Bluetooth modules • 1x PCIe x8 Edge Card Connector	**Input Power**	• 9-19V DC Wide Input Power (4 pin Mini-fit Jr Connector) • 14-19V required for full camera support with GPU under load
Buttons	Power, Reset, Recovery (Tactile Buttons as well as fine pitch pin header connector)	**RTC Battery**	3-pin Picoblade connector to accept CTI battery cable assembly
PCB/Electronics Mechanical Info	119.5mm x 105mm	**Operating Temperature**	-40°C to +85°C (-40°F to +185°F)

RoHS

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