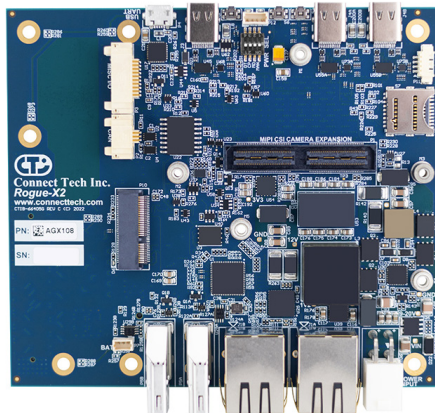




Rogue-X2 is a full featured carrier board specifically designed for commercially deployable platforms.

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.



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
- ✓ 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs
- ✓ 1x PCI Express x8 Edge Connector (PCIe Gen3)
- ✓ 1x M.2 M-Key NVMe PCIe x2, 3x USB 3.1, 2x GbE
- ✓ Wide input power range 9-19V DC
- ✓ Dimensions: 119.5mm x 105mm

## SPECIFICATIONS

<b>NVIDIA GPU SoC Module Compatibility</b>	NVIDIA® Jetson AGX Xavier™	<b>Networking</b>	2x Gigabit Ethernet (RJ45) - 1 port from RGMII PHY (direct from module) - 1 port from a PCIe I210 MAC/PHY
<b>Display Output</b>	2x HDMI 1.4a (Type A)	<b>Camera Inputs</b>	<ul style="list-style-type: none"> <li>• 6x two lane MIPI CSI-2 or</li> <li>• 4x four lane MIPI CSI-2</li> <li>• using a 120 pin (dev kit compatible) QSH expansion connection</li> </ul>
<b>USB</b>	3x USB 3.1 5Gbps/10Gbps (Type C – OTG mode 1 port) (Note only 2 interfaces can be used at 10Gbps simultaneously)	<b>Storage</b>	1x M.2 Key-M (NVMe) expansion slot (4 lane PCIe Gen 3) 1x microSD or UFS card slot
<b>UART</b>	2x @3.3V UART1 and UART2 1x USB based Debug UART3 (microUSB AB connector)	<b>I2C/SPI</b>	1x I2C Channel @ 3.3V IO 1x SPI Channel @ 3.3V IO
<b>CAN</b>	2x CAN 2.0b Port	<b>GPIO</b>	4x @3.3V GPIO (direct from module)
<b>User Expansion</b>	<ul style="list-style-type: none"> <li>• 1x M.2 Key-E expansion slot (1 lane PCIe Gen 3, USB 2.0)</li> <li>• For WiFi/Bluetooth modules</li> <li>• 1x PCIe x8 Edge Card Connector</li> </ul>	<b>Input Power</b>	<ul style="list-style-type: none"> <li>• 9-19V DC Wide Input Power (4 pin Mini-fit Jr Connector)</li> <li>• 14-19V required for full camera support with GPU under load</li> </ul>
<b>Buttons</b>	Power, Reset, Recovery (Tactile Buttons as well as fine pitch pin header connector)	<b>RTC Battery</b>	3-pin Picoblade connector to accept CTI battery cable assembly
<b>PCB/Electronics Mechanical Info</b>	119.5mm x 105mm	<b>Operating Temperature</b>	-40°C to +85°C (-40°F to +185°F)



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