Rogue Carrier for NVIDIA® Jetson AGX Xavier™

Connect Tech’s Rogue is a full featured Carrier Board for the NVIDIA® Jetson AGX Xavier™ module. This carrier board for Jetson AGX Xavier is specifically designed for commercially deployable platforms, and has an extremely small footprint of 92mm x 105mm.

The Rogue provides access to an impressive list of latest generation interfaces on the Jetson AGX Xavier while adding additional interfaces of 3x USB 3.1, 2x GbE, 2x HDMI and a locking Mini-Fit Jr. power input connector.

Rugged camera add-on expansion boards will also be available for use with the Rogue to interface directly with the Jetson AGX Xavier high density MIPI CSI interfaces.

### Specifications

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<td><strong>NVIDIA GPU SoC Module Compatibility</strong></td>
<td>NVIDIA® Jetson AGX Xavier™</td>
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| **Networking**                               | 2x Gigabit Ethernet (8p8c RJ-45)  
1 Port from RGMII PHY Controller  
1 Port from PCIe PHY Controller |
| **Display Output**                           | 2x HDMI 1.4a (Type-A vert RA) (Supports up to HDMI 2.0 UHD 4K [2160p] at 60Hz) |
| **Camera Inputs**                            | • 6 x2 Lane MIPI CSI-2 or  
• 4 x4 Lane MIPI CSI-2  
All connected via high-density camera connector breakout. Same pinout as development kit. Application specific camera add-on boards can be used in conjunction with this interface (Up to 6x MIPI I-PEX, SerDes Inputs: GMSL or FPD-Link III, HDMI Inputs) |
| **USB**                                      | 3x USB 3.1 Ports (Type-C)  
1x USB OTG (Micro-AB) |
| **Storage**                                  | 2x NVMe M.2 Key M Slots  
1 x Micro SD/UFS Card Slot |
| **UART**                                     | 2x @ 3.3V levels UART0 and UART1 |
| **I2C/SPI**                                  | 1x I2C Channel @ 3.3V IO  
1x SPI Channel @ 3.3V IO |
| **CAN**                                      | 2 x CAN 2.0b Port |
| **GPIO**                                     | 4 bits of 3.3V (level shifted GPIO) |
| **User Expansion**                           | 1 x M.2 Key E Slot with PCIe & USB (WiFi + BT modules) |
| **Input Power**                              | Wide Input 9-19V DC  
(Positive Locking Molex Mini-Fit Jr Header) |
| **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**          | 92mm x 105mm; 103g  
Compatibility with both Development and Production modules. |

### FEATURES

- Commercially deployable NVIDIA® Jetson AGX Xavier™ platform
- 6x 2-lane or 4x 4-lane MIPI CSI Camera Inputs
- 2x NVMe M.2 Key M Slots, 3x USB 3.1, 2x GbE
- Wide input power range 9-19V DC
- Dimensions: 92mm x 105mm (3.62” x 4.13”)