

Rudi Embedded System holds a lot of power in a small package, pre-integrated with the NVIDIA Jetson TX2/ TX2i supercomputer-on-module.

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.



Connect Tech Inc.  
connecttech.com  
Rudi



Rudi is ideal for deployable computer vision and deep learning applications

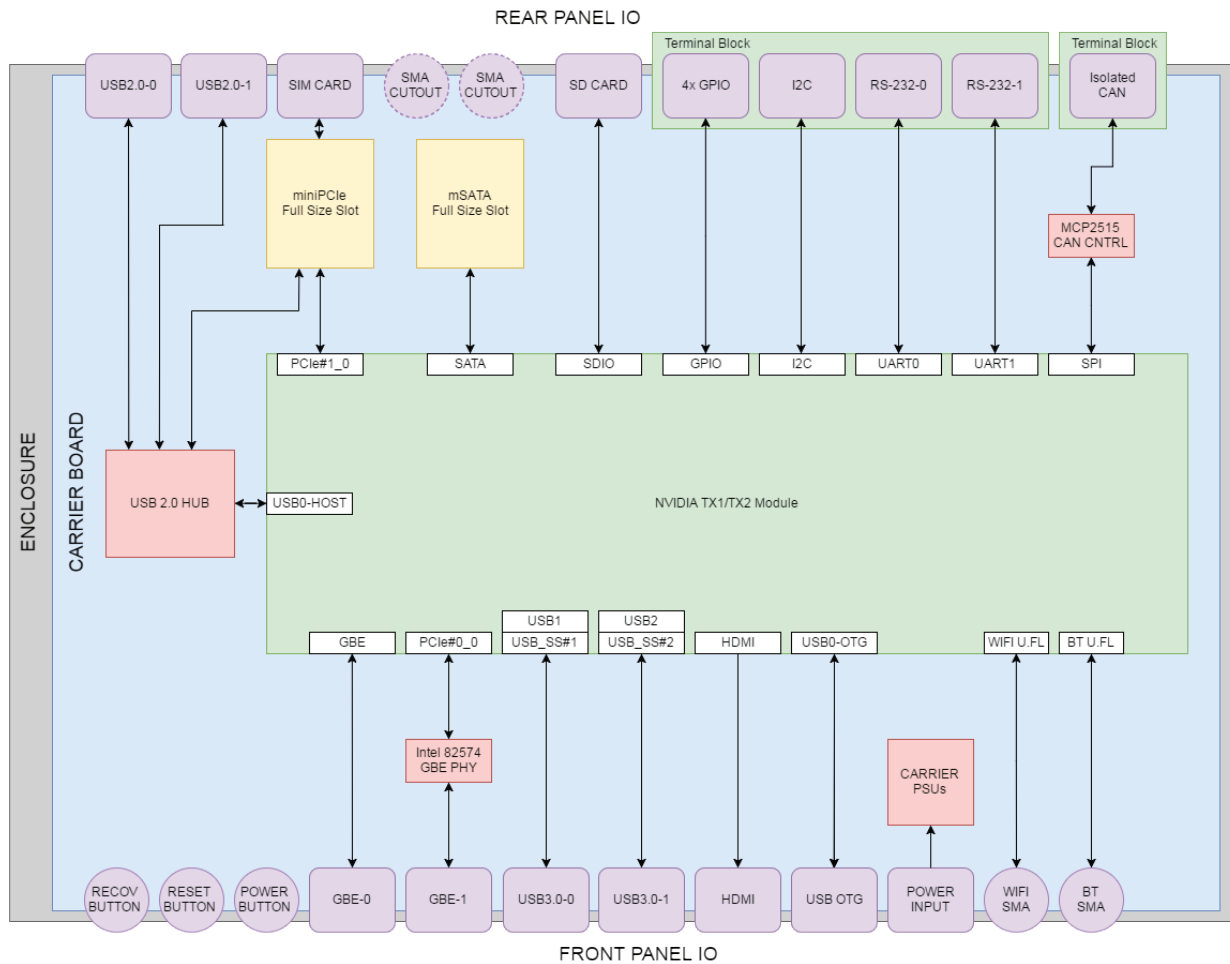
## FEATURES

- ✓ Extremely small footprint 135mm x 50mm x 105mm
- ✓ Mounting option (Surface Edge Mount)
- ✓ USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- ✓ Operating Temperature Range -20°C to +80°C

## SPECIFICATIONS

<b>Compatibility</b>	Pre-integrated with Jetson™ TX2 or TX2i	<b>GPU</b>	1.3 TFLOP/s 256-core with NVIDIA® Pascal™ Architecture
<b>CPU</b>	64-bit ARM® A57 CPUs	<b>Operating System</b>	Linux For Tegra R24.2 – Ubuntu 16.04 64-bit Preinstalled
<b>Memory</b>	8 GB LPDDR4   58.3 GB/s	<b>Video Decode</b>	4K 60 Hz
<b>Video Encode</b>	4K 30 Hz OR 4K 60 Hz	<b>WiFi</b>	IEEE 802.11ac
<b>Bluetooth</b>	Bluetooth 4.0 (24Mbls)	<b>Storage</b>	16 GB eMMC Internal Storage mSATA Expansion Capability (Up to 1TB SSD)
<b>Networking</b>	2x Gigabit Ethernet (10/100/1000 Mbps) RJ-45s	<b>Display Output</b>	1x HDMI 1.4a (Supports up to HDMI 2.0 UHD 4K [2160p] at 60Hz)
<b>USB</b>	2x USB 3.0 Ports 2x USB 2.0 Ports 1x USB OTG	<b>UART</b>	2 x 3-Wire UART Ports @ RS-232 levels
<b>I2C</b>	1x I2C Channel @ 3.3V IO	<b>CAN</b>	1x CAN 2.0b Port
<b>GPIO</b>	4-bits of 3.3V GPIO	<b>User Expansion</b>	1 x miniPCIe Slot with PCIe & USB Connectivity (Options for 3G/HD-SDI Video Capture, Analog Video Capture, Cellular Module, GPS Module, Additional Ethernet, ADC, DAC, Additional RS-232/485 Ports, Additional GPIO)
<b>Input Power</b>	+12V DC Input Only (DC Barrel) (Optional Industrial Terminal Block available)	<b>Dimensions</b>	135mm x 50mm x 105mm (5.31" x 1.97" x 4.13") (WxHxD)
<b>Mounting Option</b>	Surface Edge Bracket Mounting Option	<b>Operating Temperature</b>	-20°C to +80°C (-4°F to +176°F)
<b>Weight</b>	0.703kg / 1.55lb		

## BLOCK DIAGRAM



## MOUNTING OPTION

