

Rudi Embedded System holds a lot of power in a small package, pre-integrated with the NVIDIA Jetson TX2/ TX2i, or TX1 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 miniPCle expansion.



Connect Tech Inc.
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Rudi



Rudi is ideal for deployable computer vision and deep learning applications

FEATURES

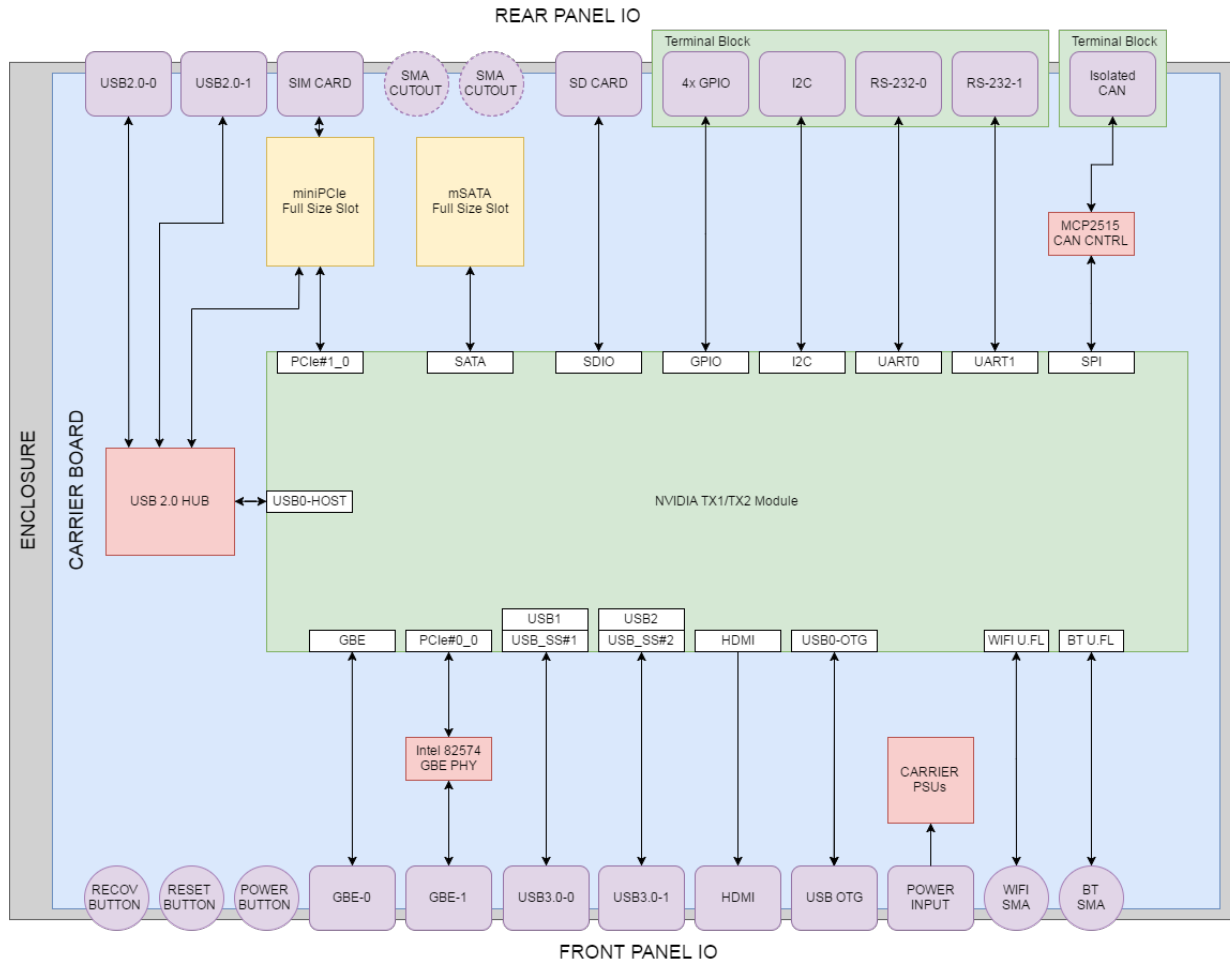
- ✓ Extremely small footprint 135mm x 50mm x 105mm
- ✓ Mounting option (Surface Edge Mount)
- ✓ USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- ✓ Operating Temperature Range -20°C to +80°C

SPECIFICATIONS

Compatibility	Pre-integrated with Jetson™ TX2, TX2i, or TX1	GPU	1 TFLOP/s 256-core with NVIDIA® Pascal™ or Maxwell™ Architecture
CPU	64-bit ARM® A57 CPUs or HMP Dual Denver 2/2MB L2 + Quad ARM® A57/2MB L2 (Up to 2 GHz)	Operating System	Linux For Tegra R24.2 – Ubuntu 16.04 64-bit Preinstalled
Memory	4 GB LPDDR4 25.6 GB/s OR 8 GB LPDDR4 58.3 GB/s	Video Decode	4K 60 Hz
Video Encode	4K 30 Hz OR 4K 60 Hz	WiFi	IEEE 802.11ac
Bluetooth	Bluetooth 4.0 (24Mbls)	Storage	16 GB eMMC Internal Storage mSATA Expansion Capability (Up to 1TB SSD)
Networking	2x Gigabit Ethernet (10/100/1000 Mbps) RJ-45s	Display Output	1x HDMI 1.4a (Supports up to HDMI 2.0 UHD 4K [2160p] at 60Hz)
USB	2x USB 3.0 Ports 2x USB 2.0 Ports 1x USB OTG	UART	2 x 3-Wire UART Ports @ RS-232 levels
I2C	1x I2C Channel @ 3.3V IO	CAN	1x CAN 2.0b Port
GPIO	4-bits of 3.3V GPIO	User Expansion	1 x miniPCle 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)
Input Power	+12V DC Input Only (DC Barrel) (Optional Industrial Terminal Block available)	Dimensions	135mm x 50mm x 105mm (5.31" x 1.97" x 4.13") (WxHxD)
Mounting Option	Surface Edge Bracket Mounting Option	Operating Temperature	-20°C to +80°C (-4°F to +176°F)
Weight	0.703kg / 1.55lb		



BLOCK DIAGRAM



MOUNTING OPTION



Surface Edge Mount

