



Rudi Embedded System

Connect Tech's Rudi Embedded System holds a lot of power in a small package. Rudi is pre-integrated with the NVIDIA® Jetson™ TX2 or Jetson™ TX1 supercomputer-on-module, providing 256 CUDA® cores on the NVIDIA® Pascal™ or Maxwell™ architecture. 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. This small embedded system is ideal for deployable computer vision and deep learning applications.



Back Panel

Specifications - ESG503

NVIDIA® Jetson™ Module Compatibility	Rudi is pre-integrated with the NVIDIA® Jetson™ TX2 or TX1 Supercomputer-on-Module
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 (24Mbps)
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
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 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)
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

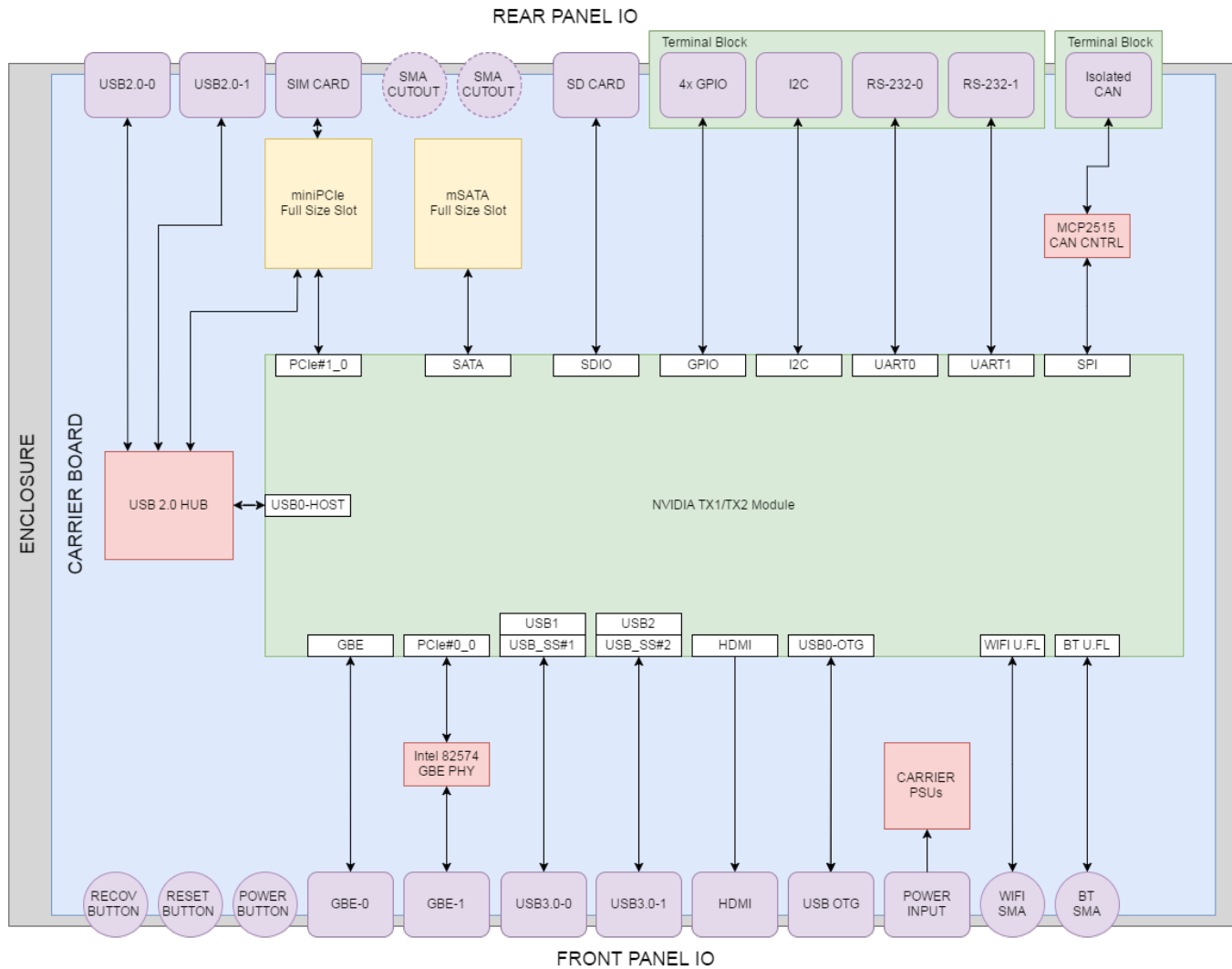
FEATURES

- ✓ 1 TFLOP/s, 256 CUDA cores with NVIDIA® Pascal™ or Maxwell™ GPU Architecture
- ✓ Extremely small footprint
135mm x 50mm x 105mm
- ✓ USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- ✓ Mounting option
(Surface Edge Mount)
- ✓ Operating Temperature Range
-20°C to +80°C

RoHS

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Block Diagram



Mounting Option



Surface Edge Mount

