



Integrator AI Edge Computing System

BB-TI-AI-AID-0001



**“The Integrator -
AI”**

**Data Sheet
DAS - 010**

INTEGRATOR - AI Edge Computing System



Powered by NVIDIA® Jetson™ TX2, TX21



The Integrator is ideal for deployable computer vision and deep learning applications



FEATURES

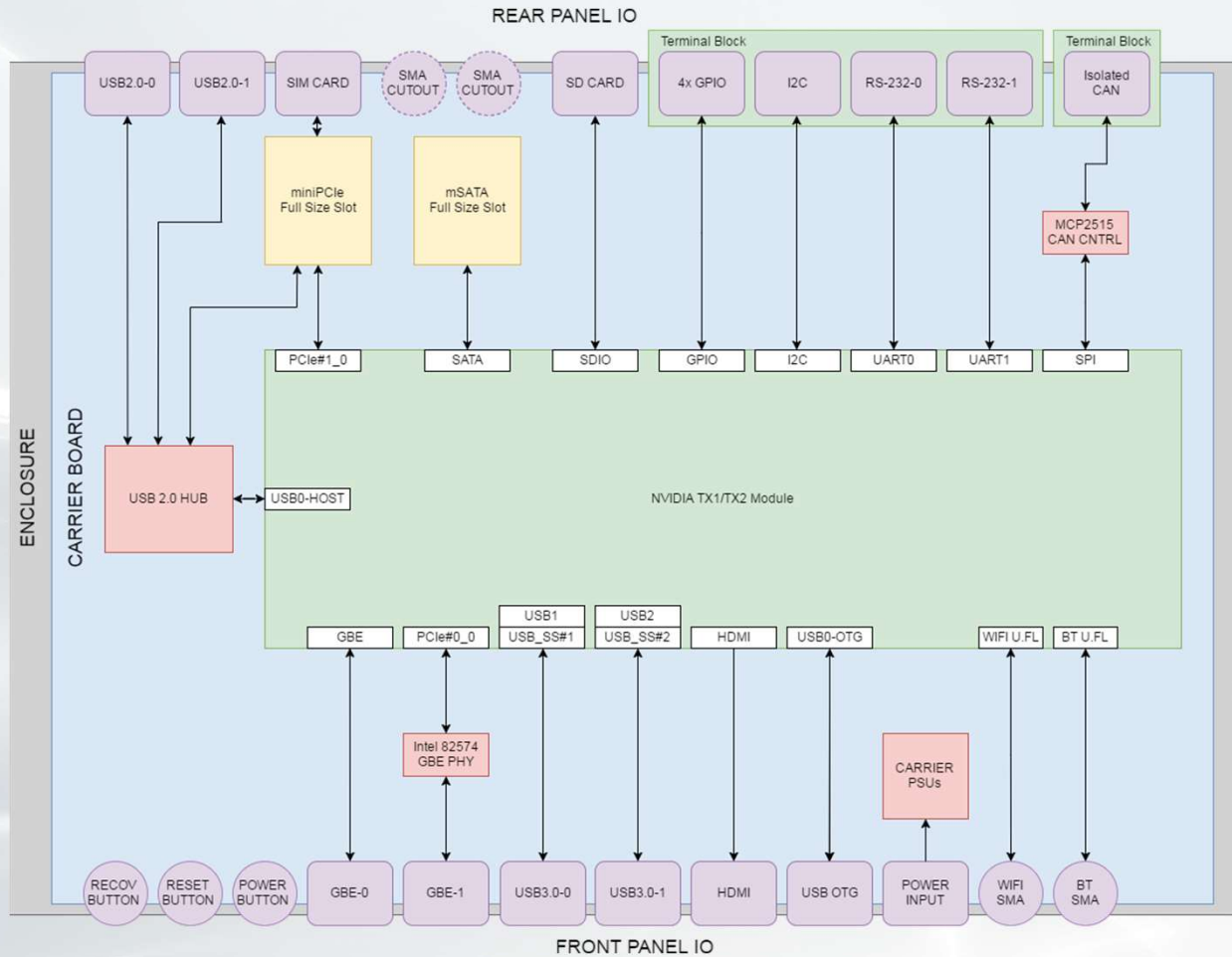
- ✓ Extremely small footprint 135mm x 50mm x 105mm
- ✓ Mounting option (Surface Edge Mount)
- ✓ USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-232, I2C, GPIO, WiFi, Bluetooth
- ✓ Operating Temperature Range -20°C to +80°C

SPECIFICATIONS

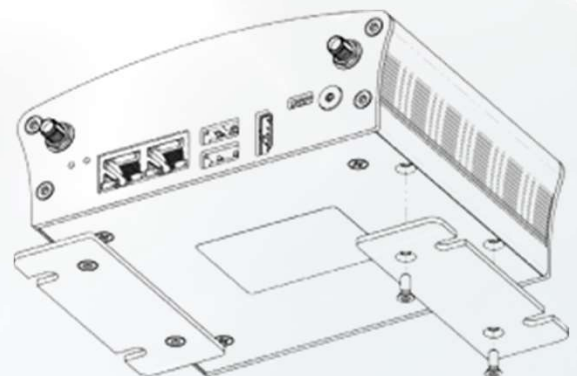
Compatibility	Pre-integrated with Jetson™ TX2 or TX2i	GPU	1.3 TFLOP/s 256-core with NVIDIA® Pascal™ Architecture
CPU	64-bit ARM® A57 CPUs	Operating System	Linux For Tegra R24.2 - Ubuntu 64-bit
Memory	8 GB LPDDR4 58.3 GB/s	Video Decode	4K 60 Hz
Video Encode	4K 30 Hz OR 4K 60 Hz	WiFi	IEEE 802.11ac
Bluetooth	Bluetooth 4.0 (24Mbls)	Storage	16 GB eMMC Internal Storage mSATA Expansion Capability (Up to 1TB SSD)
Networking	2x or 4x 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 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		

THE INTEGRATOR - AI - Edge Computing System

BLOCK DIAGRAM



INTEGRATOR EMBEDDED SYSTEM MOUNTING OPTION



SURFACE EDGE MOUNT

THE MOST VERSITILE EDGE DEVICE IN TRAFFIC!



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