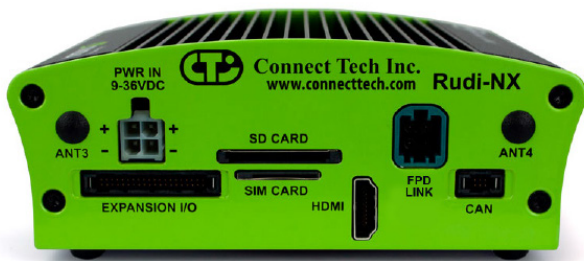


Rudi-NX is the ultimate AI edge computing device for state-of-the-art, compute-intensive applications.

Powered by NVIDIA® Jetson Orin™ NX, Rudi-NX is capable of running multiple modern neural networks in parallel and processing high-resolution data from multiple sensors simultaneously.



Field-ready for instant deployment with any program developed using NVIDIA®'s Jetpack SDK or AI Toolkit.



FEATURES

- ✓ Extremely small footprint 135mm x 50mm x 105mm
- ✓ 1 x NVMe (PCIe x 4, 2280)
- ✓ GMSL, USB 3.0, USB 2.0, CAN 2.0b, USB OTG, RS-485, I2C, GPIO, SPI, PWM
- ✓ Operating Temperature Range -20°C to +80°C

SPECIFICATIONS

Compatibility	Pre-integrated with NVIDIA® Jetson Orin™ NX	AI Performance	Orin NX 16Gb - 100 TOPS (INT8) Orin NX 8GB - 70 TOPS (INT8)
GPU	1024-core NVIDIA® Ampere™ GPU with 32 Tensor Cores	CPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	Orin NX 16GB - 16GB 128-bit LPDDR5 Orin NX 8GB - 8GB 128-bit LPDDR5	Dimensions	135mm (w) x 50mm(h) x 105mm (d) 5.3" (w) x 2" (h) x 4.1" (d)
Video Encode	1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1,080p60 (H.265) 12x 1,080p30 (H.265)	Video Decode	1x 8K30 (H.265) 2x 4K60 (H.265) 4x 4K30 (H.265) 9x 1,080p60 (H.265) 18x 1,080p30 (H.265)
DL Accelerator	2x NVDLA v2	Networking	2x 10/100/1000 BASE-T Ethernet
Display Output	1x HDMI 2.0	USB	4x USB 3.0 Ports (Type-A) 1x USB OTG (Micro-AB)
GMSL Camera Inputs	4x GMSL 1/2 Camera Inputs (MIPI CSI-2 Access to Jetson)	Storage	1x NVMe Expansion (M.2 M-Key PCIe x4,2280)
Wireless / Misc Expansion ¹	1x M.2 B-Key (USB 3.0 + USB 2.0, 3042) 1x M.2 E-Key (PCIe x 1 + USB, 2230)	MISC / IO Connector	1x UART, 1x RS-485, 2x I2C, 2x SPI, 4x GPIO, 2x PWM, 3x +5V Output, 3x +3.3V Output
CAN	1x CAN 2.0b Port	Input Power	+9 to 36V DC Input
Operating Temperature	-20°C to +80°C (-4°F to +176°F)	Warranty and Support	1 Year Warranty and Free Support