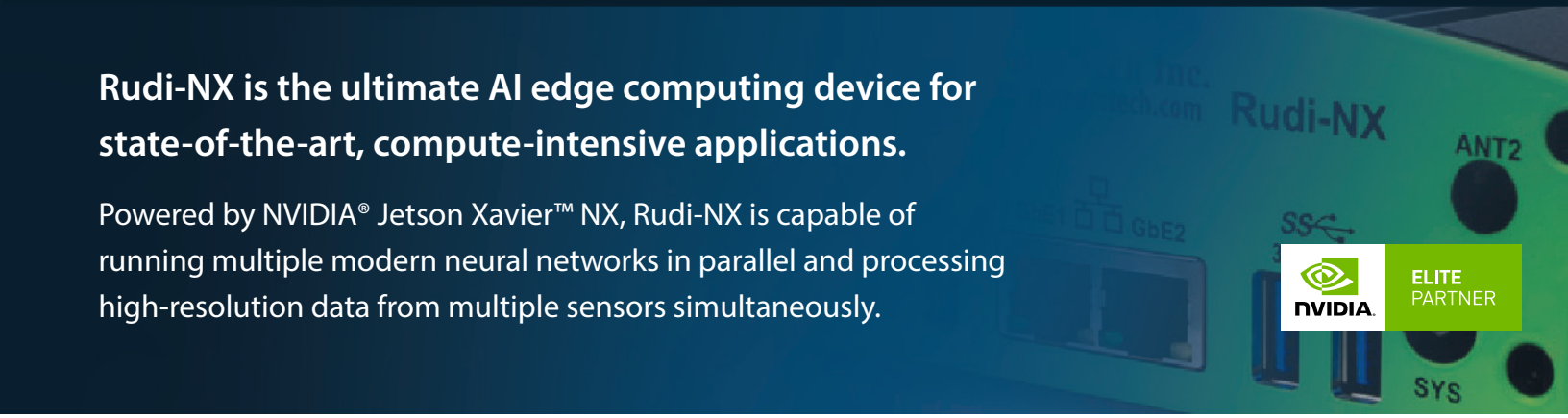
RUDI-NX EMBEDDED SYSTEM

POWERED BY NVIDIA® JETSON XAVIER™ NX

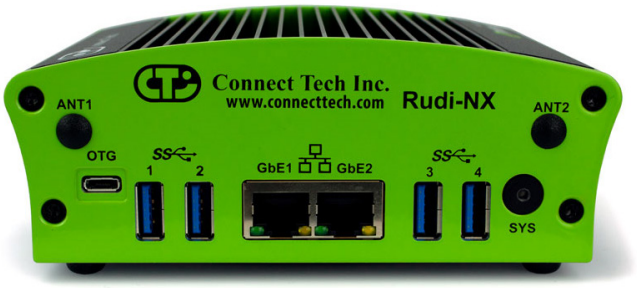
PART NUMBER: ESG602



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

Powered by NVIDIA® Jetson Xavier™ 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 deep learning toolkit application.



FEATURES

- ✓ Extremely small footprint 135mm x 50mm x 105mm
- ✓ 1 x NVMe (PCIe x 4, 2280)
  1 x SD card slot
- ✓ 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 Xavier NX	**AI Performance**	21 TOPS (INT8)
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	**CPU**	6-core NVIDIA Carmel ARM™ v8.2 64-bit CPU 6MB L2 + 4MB L3
Memory	8 GB 128-bit LPDDR4x @1600MHZ, 51.2GB/s	**Dimensions**	135mm (w) x 50mm(h) x 105mm (d) 5.3" (w) x 2" (h) x 4.1" (d)
Video Encode	2x 4K @60 (HEVC) 4x 4K @30 (HEVC 12x 1080p @ 60 (HEVC) 32x 1080p @30 (HEVC) 16x 1080p @ 30 (H.264)	**Video Decode**	2x 4K @30 (HEVC) 6x 1080p @ 60 (HEVC) 14x 1080p @ 30 (HEVC)w
DL Accelerator	2x NVDLA Engines	**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**	16 GB internal eMMC 5.1 1x NVMe Expansion (M.2 M-key (PCIe x 4, 2280))** 1x Full Sized SD Card Slit
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) 1x M.2 M-Key (PCIe x 4, 2280)	**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

[1] M.2 M-Key can be used for Storage or for Video Capture Cards

RoHS

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