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

<table>
<thead>
<tr>
<th>Compatibility</th>
<th>Pre-integrated with NVIDIA Jetson Xavier NX</th>
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<tbody>
<tr>
<td>GPU</td>
<td>384-core NVIDIA Volta™ GPU with 48 Tensor Cores</td>
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<tr>
<td>Memory</td>
<td>8 GB 128-bit LPDDR4x @1600MHZ, 51.2GB/s</td>
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</tbody>
</table>
| Video Encode        | 2x 4K @60 (HEVC)  
4x 4K @30 (HEVC)  
12x 1080p @ 60 (HEVC)  
32x 1080p @ 30 (HEVC)  
16x 1080p @ 30 (H.264) |
| DL Accelerator      | 2x NVIDIA DL Engines |
| Display Output      | 1x HDMI 2.0 |
| GMSL Camera Inputs  | 4x GMSL 1/2 Camera Inputs (MIPI CSI-2 Access to Jetson) |
| Wireless / Misc Expansion | 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) |
| CAN                 | 1x CAN 2.0b Port |
| Operating Temperature | -20°C to +80°C (-4°F to +176°F) |
| AI Performance      | 21 TOPS (INT8) |
| CPU                 | 6-core NVIDIA Carmel ARM™ v8.2 64-bit CPU  
6MB L2 + 4MB L3 |
| Dimensions          | 135mm (w) x 50mm(h) x 105mm (d)  
5.3”(w) x 2”(h) x 4.1”(d) |
| Video Decode        | 2x 4K @30 (HEVC)  
6x 1080p @ 60 (HEVC)  
14x 1080p @ 30 (HEVC) |
| Networking          | 2x 10/100/1000 BASE-T Ethernet |
| USB                 | 4x USB 3.0 Ports (Type-A)  
1x USB OTG (Micro-AB) |
| Storage             | 16 GB internal eMMC 5.1  
1x NVMe Expansion (M.2 M-key (PCIe x 4, 2280))**  
1x Full Sized SD Card Slot |
| MISIO Connector     | 1x UART, 1x RS-485, 2x I2C, 2x SPI, 4x GPIO, 2x PWM, 3x +5V Output, 3x +3.3V Output |
| Input Power         | +9 to 36V DC Input |
| Warranty and Support| 1 Year Warranty and Free Support |

**Note:** M.2 M-Key can be used for Storage or for Video Capture Cards

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