



MILBOX-ORNX

RUGGEDIZED ORIN NX & ORIN NANO COMPACT COMPUTER



HIGHLIGHTS

- › NVIDIA Jetson Orin Nano & NX Super Mode Support
- › AI Ready with up to 157 TOPS performance
- › Military-grade compact rugged computer
- › Extended operating temperature
- › High-resolution display support
- › Extensive connectivity options
- › Wide power input range
- › High Speed Interfaces

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB/8GB NVIDIA Jetson Orin NX 8GB/16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI
Interfaces	2x USB3.0 2x Gigabit Ethernet 2x RS-232/422/485 1x RS-232 (Debug) 2x CAN BUS
Wireless Communication	WIFI/LTE/5G/Bluetooth
Power Supply	9-40 VDC (28 VDC Nominal)
Extension Sockets	1x M.2 Key-B (Can be converted to M.2 Key-E) 1x SIM Camera Expansion Connector
Mass Storage	1x M.2 Key-M 2280 1x M.2 Key-M 2230
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	LxWxH: 180.50mm x 131mm x 111mm, 1900 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
Operating Humidity	5% - 95% (Non-Condensing)
Designed to meet	MIL-STD-461G, MIL-STD-1275E, MIL-STD-704F, DO-160G, IP67
JetPack Support	JetPack 5.x / 6.x

The MILBOX-ORNX is a high-performance, ultra-compact embedded computing solution for the most demanding AI and edge computing applications. Its lightweight and rugged design makes it perfectly suited for drone and UAV deployments where size, weight, and power efficiency are critical. Despite its small form factor, MILBOX-ORNX delivers exceptional computing power with the NVIDIA Jetson Orin NX & Orin Nano. Its 9-40V DC input ensures stable operation in dynamic power environments, making it a reliable choice for aerospace and defense applications.

It features multiple high-speed connectivity options, including Gigabit Ethernet, USB 3.0, RS-232/422/485, CAN BUS, and a Camera Expansion Connector, allowing seamless integration with sensors, cameras, and avionics systems. Its wide operating temperature range of -25°C to 85°C guarantees reliability in operating conditions. Whether deployed in surveillance drones, autonomous UAVs, or AI-powered aerial platforms, MILBOX-ORNX provides unmatched processing power in a compact and lightweight package, making it the ultimate computing solution for next-generation airborne applications.



Defense



Aerospace



Autonomous
Vehicles



Marine



Transportation



Drones/UAVs



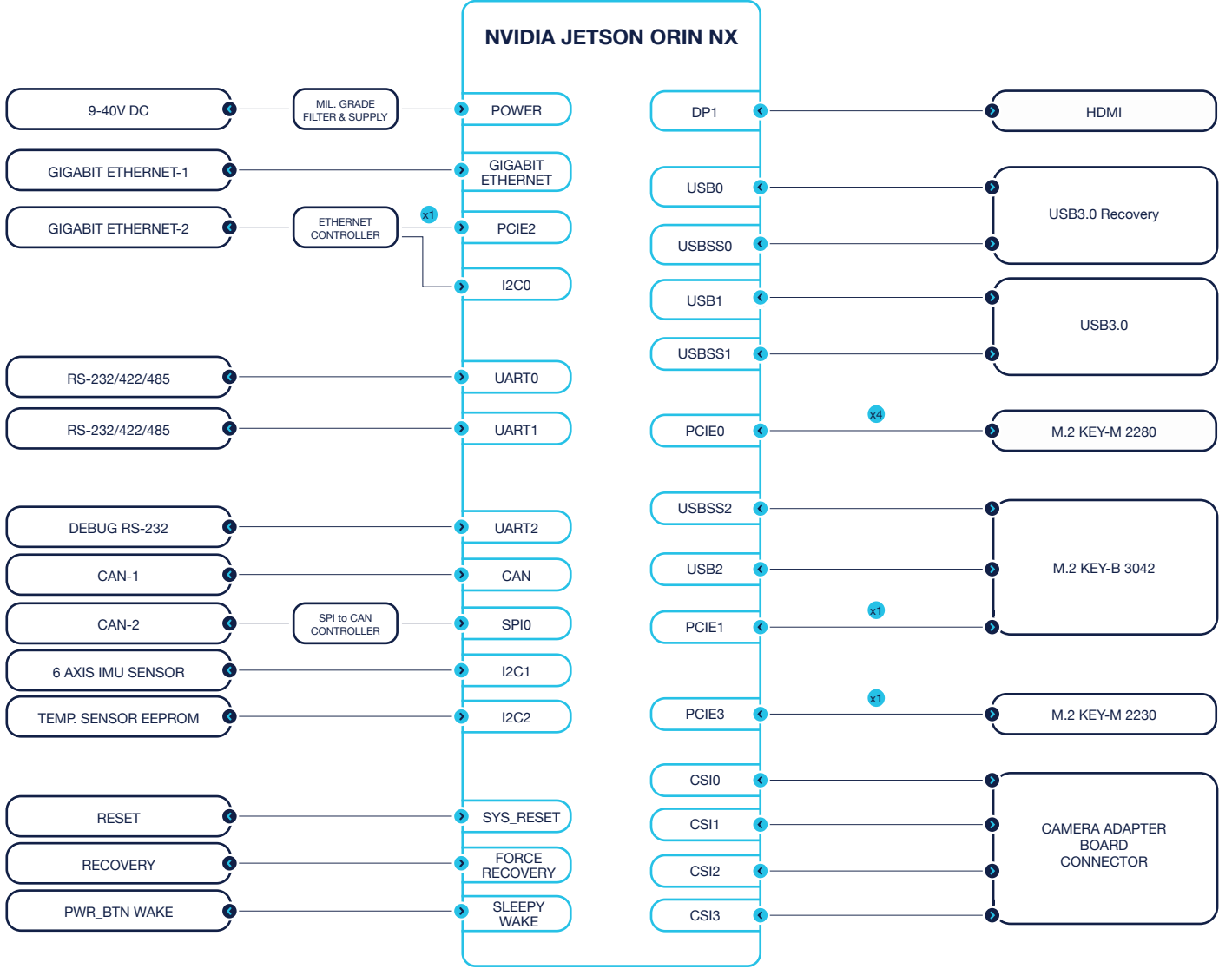
Elite
Partner

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BLOCK DIAGRAM



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