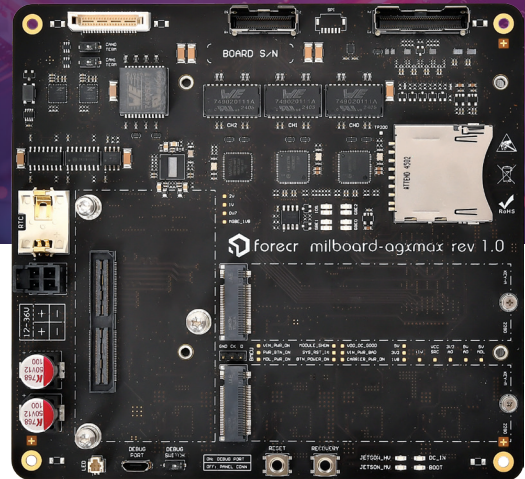




MILBOARD-AGXMAX

MIL-GRADE AGX ORIN CARRIER BOARD WITH 10G ETHERNET



HIGHLIGHTS

- › Includes a 6-axis IMU and temperature sensor for advanced system monitoring
- › Features an external RTC chip designed to deliver over 10 years of battery life
- › Integrates an on-board TPM 2.0 security chip for enhanced system protection
- › Supports camera expansion with up to 4x 4-lane or 6x 2-lane MIPI CSI
- › Equipped with 1x 10G Ethernet + 3x Gigabit Ethernet
- › Provides a FAN header for active cooling support
- › Equipped with EEPROM for secure data storage

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI2.0
Interfaces	3x Gigabit Ethernet 1x 10G Ethernet 2x USB 3.2 2x USB 2.0 1x USB 2.0 (Serial Console) 2x CAN FD (Isolated) 4x RS232/422 (Isolated, Software-Configurable) 8x Digital IO (Isolated, 3.3V Level)
Wireless Communication	None
Power Supply	12-36 VDC (28 VDC Nominal)
Extension Sockets	Camera Expansion Slot (Up to 4x 4-Lane or 6x 2-Lane MIPI CSI)
Mass Storage	64 GB eMMC 5.1 Flash 2x M.2 Key-M SSD Slot (occupied) SD Card
Ambient Conditions	-40°C ... +85°C (Carrier Board)
Form Factor / Dimensions	150 mm x 140 mm
Operating Systems	Ubuntu Linux 20.04 Ubuntu Linux 22.04
JetPack Support	JetPack 5.x JetPack 6.x

The MILBOARD-AGXMAX is a robust, MIL-grade carrier board engineered to unlock the full potential of the NVIDIA Jetson AGX Orin platform in mission-critical edge AI applications. Designed for extreme performance and durability, it delivers high-bandwidth connectivity with 10G Ethernet, multi-camera support, isolated industrial interfaces, and wide power input flexibility. Its robust thermal tolerance of -40°C to +85°C ensures reliable operation in harsh defense, aerospace, and industrial environments where stability and high compute capability are non-negotiable.

Built for advanced AI workloads, the MILBOARD-AGXMAX integrates essential security and system sensors, including TPM 2.0, a 6-axis IMU, a temperature sensor, and a long-life 10-year RTC making it ideal for long-duration deployments. With onboard 64GB eMMC, dual M.2 NVMe slots, versatile I/O such as CAN FD, RS232/422, digital I/O, and multiple USB ports, it offers exceptional expandability for complex systems. Combining rugged engineering with powerful AI acceleration, this carrier board provides a reliable foundation for next-generation autonomous systems and field-ready intelligent machines.



Defense



Aerospace



Robotics



Industrial Automation



Healthcare

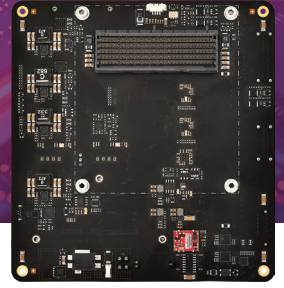


Transportation

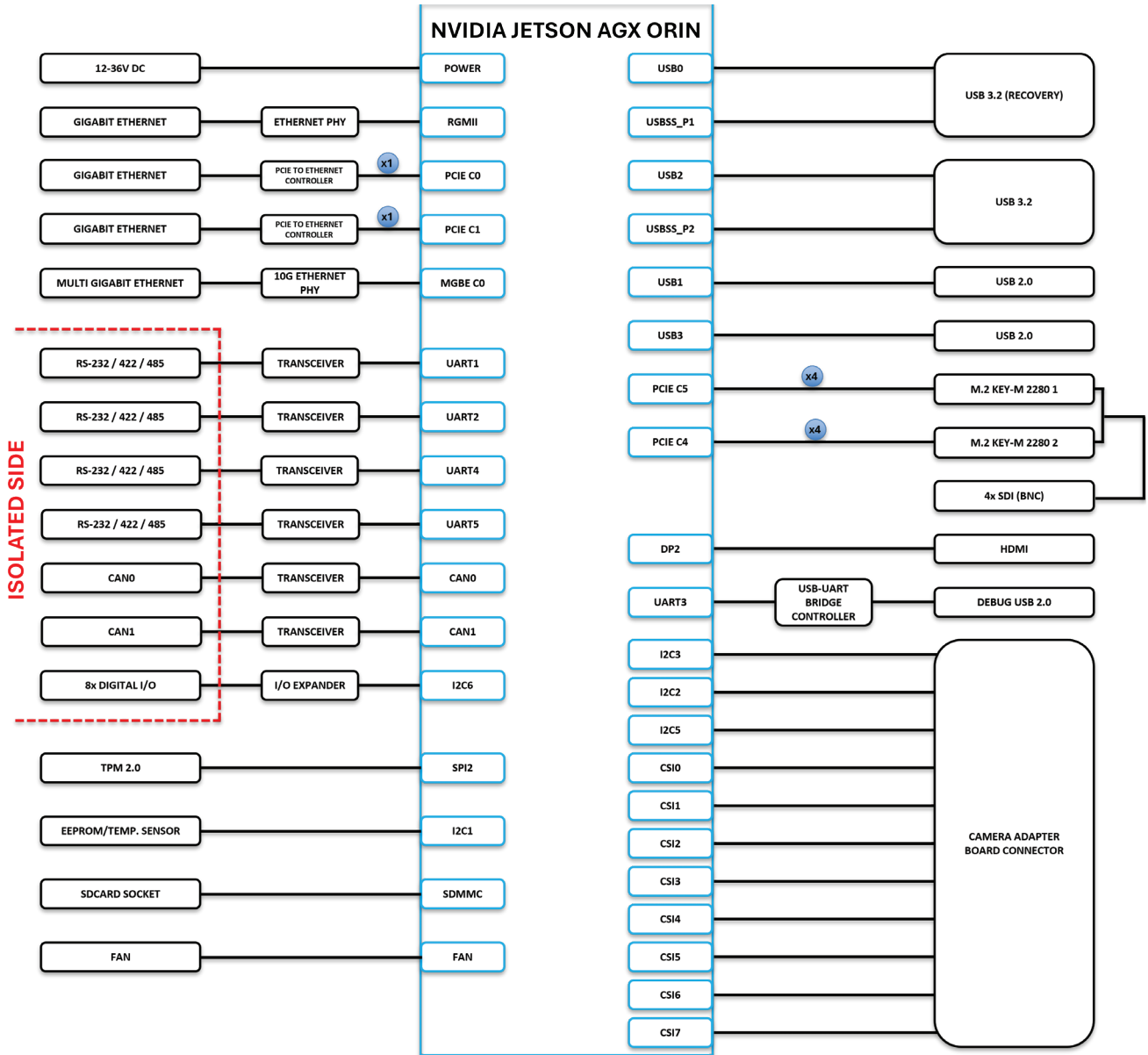


MILBOARD-AGXMAX

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BLOCK DIAGRAM



FOR ORDERING



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