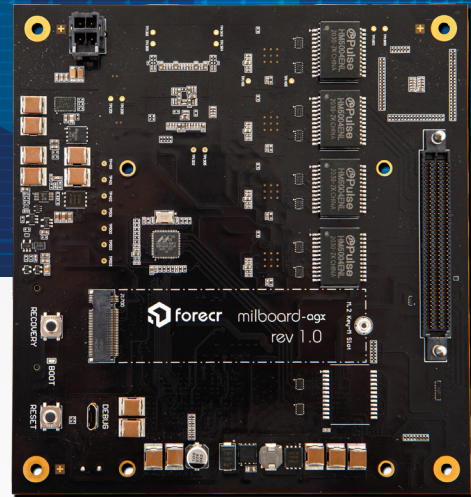


MILBOARD-AGX

MIL-GRADE AGX XAVIER / ORIN CARRIER BOARD



HIGHLIGHTS

- › Supports NVIDIA Jetson AGX Xavier/Orin SOM Family)
- › Supercomputer level performance for military applications
- › 4K Video Display (DP 1.4)
- › Rich IO options (8x UART, 2x CAN Bus)
- › High Speed Interfaces (4x Gigabit Ethernet, 2x USB 3.2)
- › Compatible with military standards
- › Wide voltage input range
- › Extended temperature range
- › Robust design for 7/24 operation

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Xavier 32GB NVIDIA Jetson AGX Xavier 64GB NVIDIA Jetson AGX Xavier Industrial 32GB NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial 64GB
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	4x Gigabit Ethernet 2x USB 3.2 2x CAN Bus 8x UART 1x MicroUSB 2.0 (Debug UART) 1 x I2C 1 x SPI
Wireless Communication	None
Power Supply	18-30 VDC
Extension Sockets	SD Card
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot 1x Camera Connector (6 CSI camera support)
Ambient Conditions	-40°C ... +85°C
Form Factor / Dimensions	150 mm x 140 mm, 120gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x JetPack 5.x

MILBOARD-AGX is a carrier board designed for harsh military and aerospace environments. It is powered by the NVIDIA Jetson AGX Xavier module, which has an NVIDIA Volta GPU and an eight-core ARM64 CPU, providing high processing power for complex applications. The carrier board features a rugged design that ensures reliable performance even in the most extreme conditions. It has a wide operating temperature range and a robust power management system that can handle input voltages from 18V to 32V.

In addition to its powerful processing capabilities, MILBOARD-AGX also offers a variety of connectivity options, including multiple Gigabit Ethernet ports and UARTs. It also features several USB 3.0 ports, HDMI output, and two CAN bus interfaces. The carrier board also includes an M.2 Key-M slot for additional storage options.

MILBOARD-AGX runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications. It is a versatile solution for a wide range of military and aerospace applications.



Defense



Aerospace



Robotics



Industrial Automation



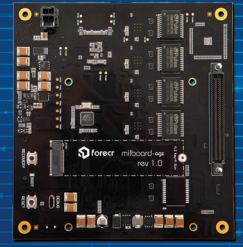
Healthcare



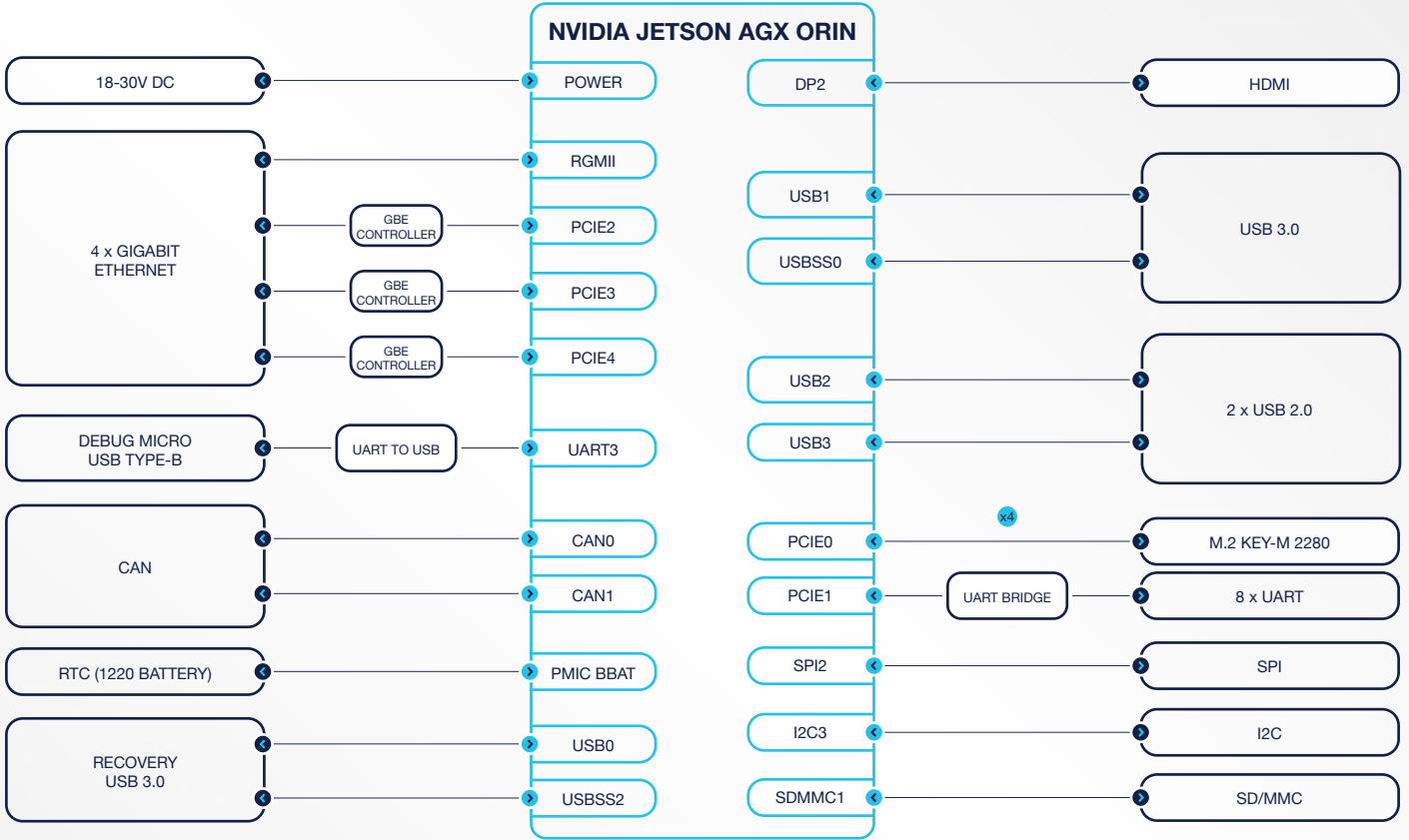
Transportation

MILBOARD-AGX

MIL-GRADE AGX XAVIER / ORIN CARRIER BOARD



BLOCK DIAGRAM



ORDERING INFORMATION

MILBOARD-AGX-AA	MILBOARD-AGX carrier board without SOM
MILBOARD-AGX-AB	MILBOARD-AGX carrier board with AGX Orin 32GB SOM
MILBOARD-AGX-AC	MILBOARD-AGX carrier board with AGX Orin 64GB SOM
MILBOARD-AGX-AD	MILBOARD-AGX carrier board with AGX Orin Industrial 64GB SOM
MILBOARD-AGX-AE	MILBOARD-AGX carrier board with AGX Xavier 32GB SOM
MILBOARD-AGX-AF	MILBOARD-AGX carrier board with AGX Xavier 32GB Industrial SOM
MILBOARD-AGX-AG	MILBOARD-AGX carrier board with AGX Xavier 64GB SOM

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