



## MILBOARD-XV

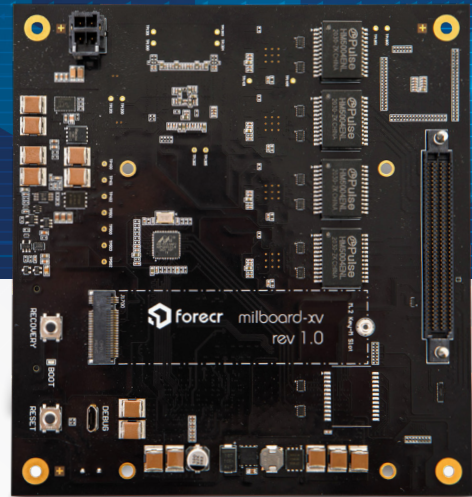
MIL-GRADE AGX XAVIER CARRIER BOARD

### HIGHLIGHTS

- › Supports NVIDIA Jetson AGX Xavier 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 (5x 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
Memory	32 / 64 GB 256-bit LPDDR4x
Graphics Interfaces	1x HDMI 2.0(max resolution 3840x2160)
Interfaces	5x Gigabit Ethernet 2x USB 3.2 2x CAN Bus 8x UART 1x MicroUSB 2.0 (Debug UART)
Wireless Communication	None
Power Supply	18-30 VDC
Extension Sockets	1x MicroSD
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
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 (4.4.1 / 4.5 / 4.5.1 / 4.6 / 4.6.1 / 4.6.2 / 4.6.3) JetPack 5.x (5.0.2 / 5.1)



MILBOARD-XV 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-XV 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-XV 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

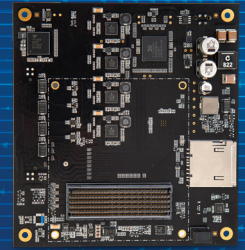


Transportation

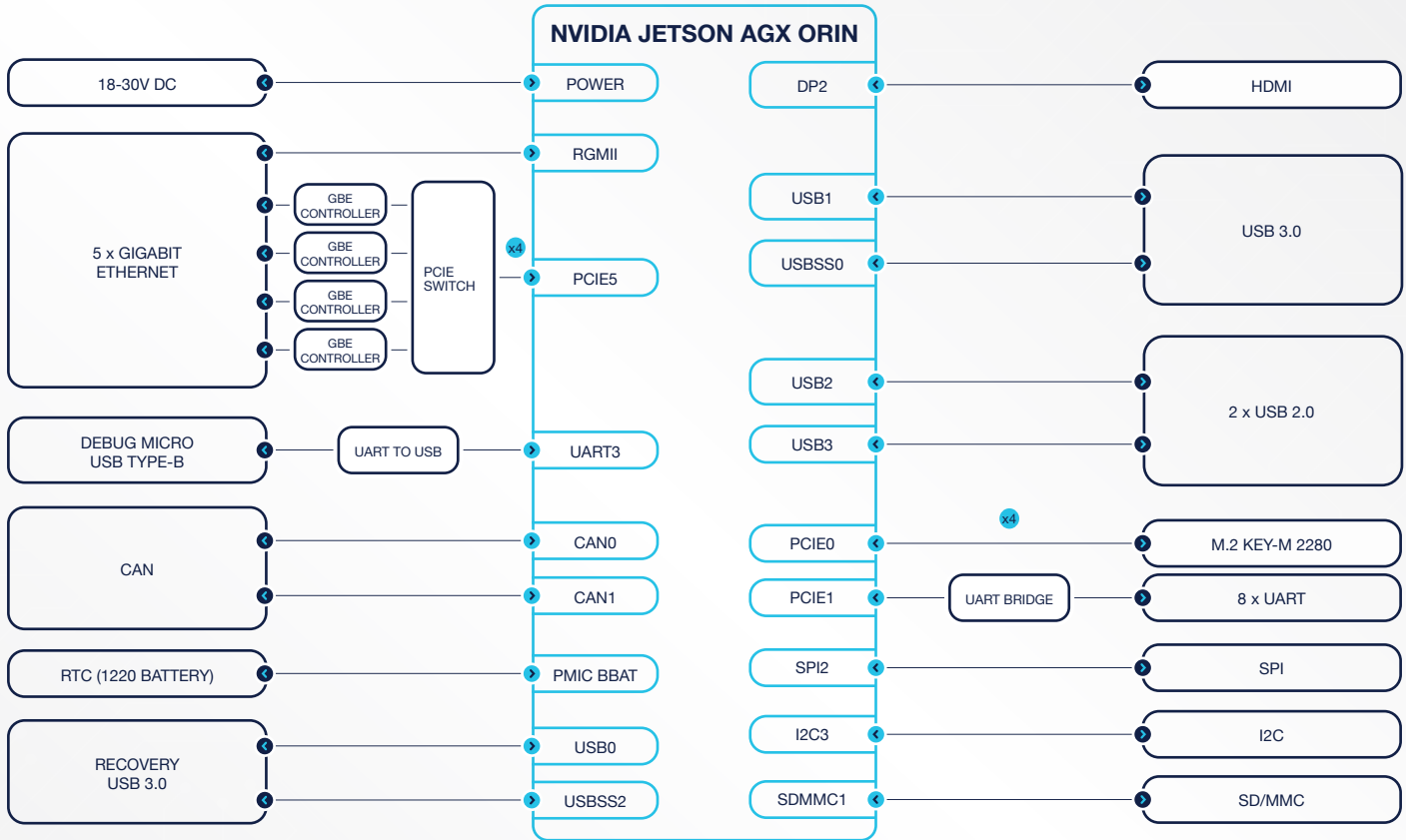


# MILBOARD-XV

MIL-GRADE AGX XAVIER CARRIER BOARD



## BLOCK DIAGRAM



## ORDERING INFORMATION

<b>MILBOARD-XV-AA</b>	MILBOARD-XV carrier board without SOM
<b>MILBOARD-XV-AB</b>	MILBOARD-XV carrier board with 32GB AGX Xavier SOM
<b>MILBOARD-XV-AC</b>	MILBOARD-XV carrier board with 32GB AGX Xavier Industrial SOM
<b>MILBOARD-XV-AD</b>	MILBOARD-XV carrier board with 64GB AGX Xavier SOM

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