MILBOX-AGX

RUGGEDIZED AGX ORIN COMPUTER

HIGHLIGHTS

› Military-grade rugged computer

› AI Ready for deep neural networks (275 TOPS)

› 4x Gigabit Ethernet ports

› Rich IO options (4xRS232/4xRS422/2xCAN)

› Lightning-fast storage performance

› Extensive connectivity options

› Compact and powerful design

› Ruggedized chassis withstands tough conditions

› Ideal for demanding environments

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
Graphics Interfaces	1x HDMI
Interfaces	4x Gigabit Ethernet 1x USB 3.1 2x USB 2.0 1x USB 2.0 (Serial Console) 2x CAN Bus 4x RS232 4x RS422
Wireless Communication	None
Power Supply	18-32 VDC (28 VDC Nominal)
Extension Sockets	None
Mass Storage	64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +70°C (-40°C for Industrial Module)
Form Factor / Dimensions	210 mm x 296 mm x 92 mm 4750 grams
Operating Systems	Ubuntu Linux 20.04
Standards	MIL-STD-1275/704, MIL-STD-810 MIL-STD-461, IP67
JetPack Support	JetPack 5.x (5.0.2 / 5.1)

Introducing our latest military grade ruggedized computer, powered by the cutting-edge AGX Orin SoM technology. This compact and powerful device is designed to withstand the toughest environments, making it the perfect solution for military, industrial, and other demanding applications.

With 4x Gigabit Ethernet ports, USB3.2, HDMI, 2x CAN, 4x RS- 232, and 4x RS-422, this ruggedized computer offers unparalleled connectivity options. Plus, with M.2 SSD support, you'll have lightning-fast storage performance, ensuring your critical data is always available when you need it.

Our ruggedized computer is built to last, with a ruggedized chassis that can withstand extreme temperatures, shocks, and vibrations. You can rely on this device to operate reliably in the most challenging environments. Whether you're in the military, working in industrial settings, or need a reliable computing solution for outdoor applications, our ruggedized computer is the ideal choice. With its powerful performance, rugged design, and extensive connectivity options, this device is sure to exceed your expectations.
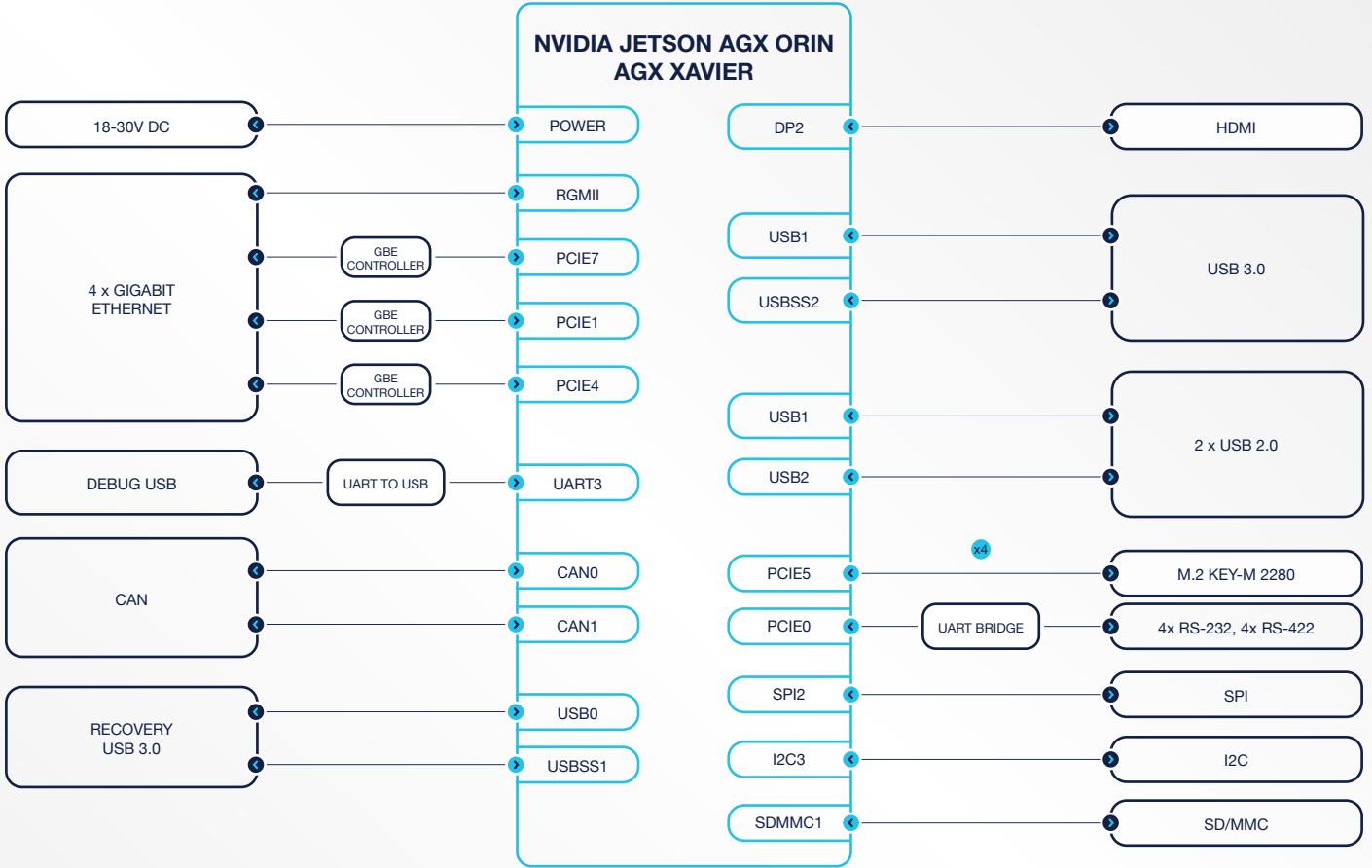
Defense

Aerospace

Marine

Transportation

PREFERRED PARTNER

RoHS COMPLIANT

MILBOX-AGX

RUGGEDIZED AGX ORIN COMPUTER

BLOCK DIAGRAM

NVIDIA JETSON AGX ORIN AGX XAVIER

Left Side		Center (Jetson)	Center (Jetson)	Right Side
18-30V DC		POWER	DP2	HDMI
4 x GIGABIT ETHERNET		RGMII	USB1	USB 3.0
	GBE CONTROLLER	PCIE7	USBSS2	
	GBE CONTROLLER	PCIE1	USB1	2 x USB 2.0
	GBE CONTROLLER	PCIE4	USB2	
DEBUG USB	UART TO USB	UART3	PCIE5 (x4)	M.2 KEY-M 2280
CAN		CAN0	PCIE0 / UART BRIDGE	4x RS-232, 4x RS-422
		CAN1	SPI2	SPI
RECOVERY USB 3.0		USB0	I2C3	I2C
		USBSS1	SDMMC1	SD/MMC

ORDERING INFORMATION

MILBOXAGX-32S-000	MILBOX-AGX Ruggedized Computer with AGX Orin 32GB
MILBOXAGX-32S-250	MILBOX-AGX Ruggedized Computer with AGX Orin 32GB and 250GB SSD
MILBOXAGX-32S-500	MILBOX-AGX Ruggedized Computer with AGX Orin 32GB and 500GB SSD
MILBOXAGX-32S-1000	MILBOX-AGX Ruggedized Computer with AGX Orin 32GB and 1000GB SSD
MILBOXAGX-32S-2000	MILBOX-AGX Ruggedized Computer with AGX Orin 32GB and 2000GB SSD
MILBOXAGX-64S-000	MILBOX-AGX Ruggedized Computer with AGX Orin 64GB
MILBOXAGX-64S-250	MILBOX-AGX Ruggedized Computer with AGX Orin 64GB and 250GB SSD
MILBOXAGX-64S-500	MILBOX-AGX Ruggedized Computer with AGX Orin 64GB and 500GB SSD
MILBOXAGX-64S-1000	MILBOX-AGX Ruggedized Computer with AGX Orin 64GB and 1000GB SSD
MILBOXAGX-64S-2000	MILBOX-AGX Ruggedized Computer with AGX Orin 64GB and 2000GB SSD

NVIDIA PREFERRED PARTNER

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