forecr

MILBOX-AGX-SDI

RUGGEDIZED AGX ORIN COMPUTER WITH SDI SUPPORT

HIGHLIGHTS

› AI Ready for deep neural networks (275 TOPS)

› Versatile Video Input with 4x SDI

› 4x Gigabit Ethernet ports

› Military-Grade Rugged Design

› Rich Connectivity Options

› Wide Power Input Range

› Reliable Power Efficiency

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 HDMI 4x SDI Video Input
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	12-36 VDC (28 VDC Nominal)
Extension Sockets	None
Mass Storage	64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot (occupied) SD Card
Ambient Conditions	-25°C ... +85°C (-40°C for Industrial Module)
Form Factor / Dimensions	30cm x 24cm x 10cm, 5292gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
Operating Humidity	5% - 95% (Non-Condensing)
Designed to meet	MIL-STD-1275/704, MIL-STD-810 MIL-STD-461, IP67
JetPack Support	JetPack 5.x / 6.x

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, 4x RS-422 and 4x SDI video input this ruggedized computer offers unparalleled connectivity options. 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.
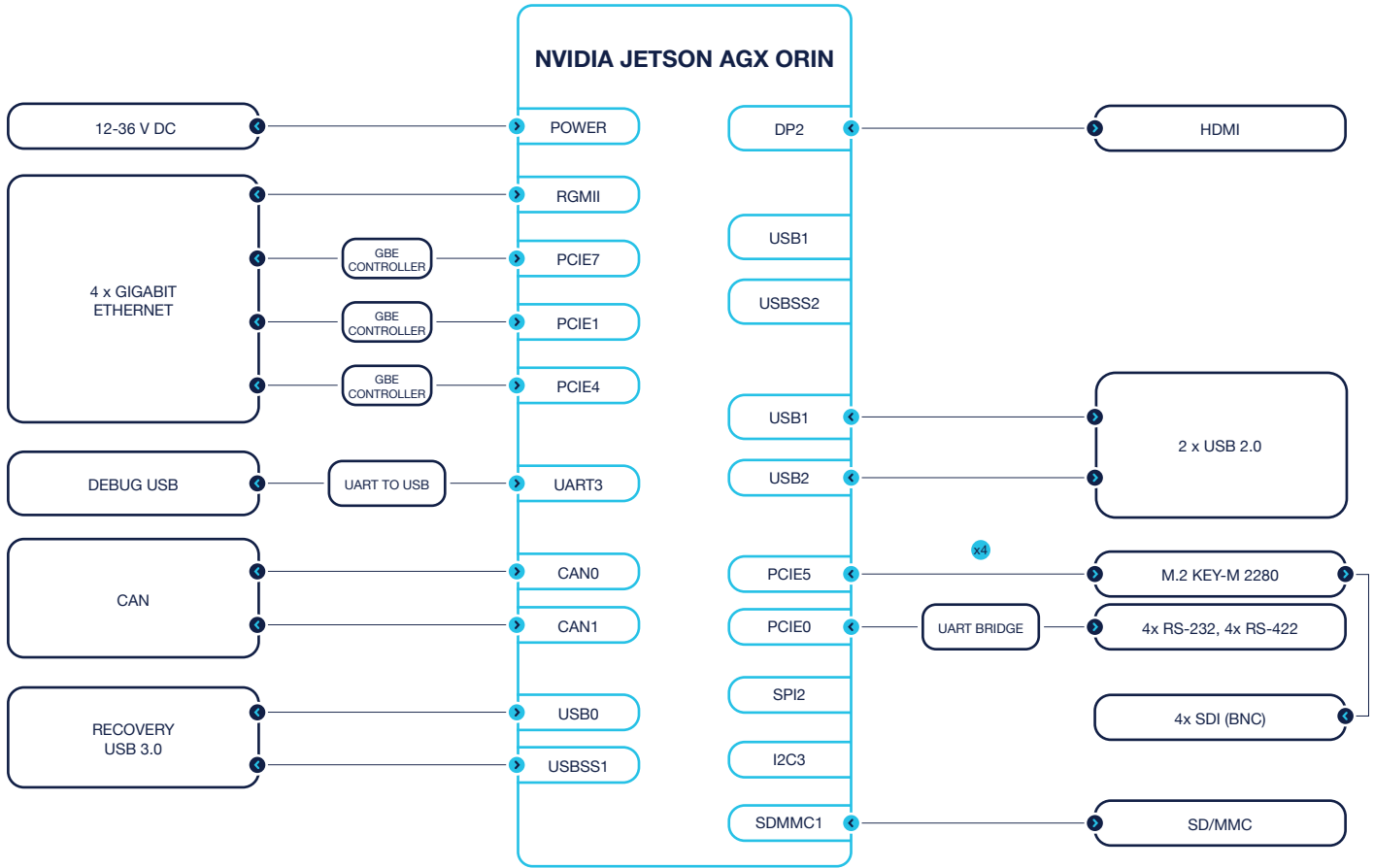
Defense

Aerospace

Marine

Transportation

RoHS COMPLIANT

NVIDIA Preferred Partner

MILBOX-AGX-SDI

RUGGEDIZED AGX ORIN COMPUTER WITH SDI SUPPORT

BLOCK DIAGRAM

NVIDIA JETSON AGX ORIN

Left side	Jetson	Jetson	Right side
12-36 V DC	POWER	DP2	HDMI
4 x GIGABIT ETHERNET	RGMII	USB1	
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
CAN	CAN1	SPI2	4x SDI (BNC)
RECOVERY USB 3.0	USB0	I2C3	
RECOVERY USB 3.0	USBSS1	SDMMC1	SD/MMC

FOR ORDERING

NVIDIA | Preferred Partner

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