forecr

MILBOX-XV
RUGGEDIZED AGX XAVIER COMPUTER

HIGHLIGHTS

› NVIDIA Jetson AGX Xavier Processor

› Supercomputer performance in Military PC form

› AI Ready for deep neural networks (32 TOPS)

› Process 32 Full-HD video streams with Deepstream SDK

› Up to 64 GB 256-bit LPDDR4x RAM

› 4K Video Encode/Decode

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

› High Speed Interfaces (4xGigabit Ethernet, USB 3.1)

› Low power operation (<60 Watts)

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
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	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C (-40°C for Industrial Module)
Form Factor / Dimensions	225 mm x 300 mm x 100 mm, 5300gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
Operating Humidity	5% - 95% (Non-Condensing)
Standards	MIL-STD-1275/704, MIL-STD-810 MIL-STD-461, IP67
JetPack Support	JetPack 4.x JetPack 5.x

MILBOX-XV is the perfect computing platform for businesses that need high-performance and reliability in challenging environments. The NVIDIA Jetson AGX Xavier system-on-module, featuring an eight- core ARM CPU, 32 GB of RAM, and an NVIDIA Volta GPU, ensures top-notch processor performance. Its fanless design guarantees reliable operation in dusty or dirty environments, and it can handle extreme temperatures, shock, and vibration.

With its multiple I/O ports, including 4x Gigabit Ethernet, USB 3.0, HDMI, 4x RS-232, and 4x RS-422, the MILBOX-XV is an ideal solution for businesses that need to connect to various devices and sensors. MILBOX-XV's rugged design makes it suitable for military, industrial, and outdoor applications, and its processor performance ensures that your business can handle even the most demanding tasks.

Upgrade your business with the MILBOX-XV, a powerful computing platform that guarantees reliability and top-notch performance even in the toughest environments.
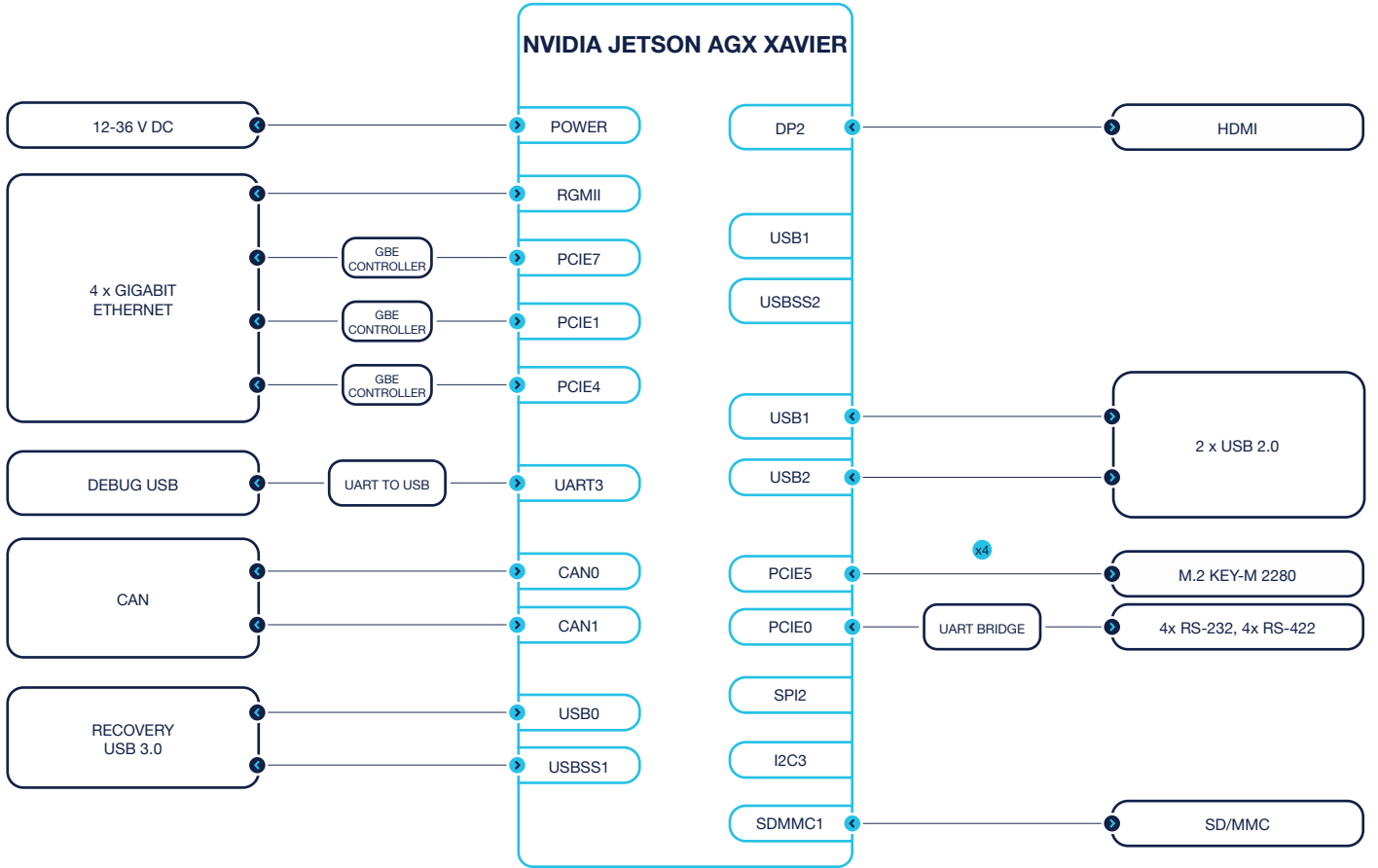
Defense

Aerospace

Marine

Transportation

RoHS COMPLIANT

NVIDIA Elite Partner

MILBOX-XV

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BLOCK DIAGRAM

NVIDIA JETSON AGX XAVIER

Input		Jetson Port	Jetson Port		Output
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		
RECOVERY USB 3.0		USB0	I2C3		
RECOVERY USB 3.0		USBSS1	SDMMC1		SD/MMC

FOR ORDERING

Forecr OÜ (Reg No: 16578675)
VAT No: EE102592089
Sakala tn 7-2, Tallinn, 10141, Estonia

Forecr OÜ (Technopol Office)
Akadeemia tee 21/1 (II-floor), Room 219, 12618, Tallinn, Estonia

FORECR ELEKTRONIK LTD. STI. (R&D)
Gazi Üniversitesi Gölbaşı Yerleşkesi Teknokent Binası B Blok
No:10/50-B/23 06830 Gölbaşı / ANKARA / TURKEY

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forecr

info@forecr.io | www.forecr.io | www.linkedin.com/company/forecr/