forecr

DSBOARD-XV2
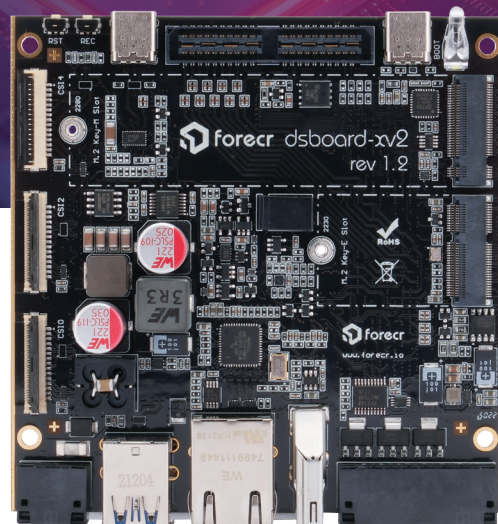INDUSTRIAL GRADE AGX XAVIER CARRIER BOARD

HIGHLIGHTS

› Supports NVIDIA Jetson AGX Xavier SOM

› AI ready for edge analytics with 32 TOPS AI performance

› 4K Video Display (HDMI 2.0)

› Industrial IO options (RS232/485, CAN Bus, Digital I/Os)

› Rich extension options (M.2 Key E, M.2 Key M)

› High Speed Interfaces (Gigabit Ethernet, USB 3.1)

› Robust design for 7/24 operation

› Wide voltage input range

› Extended temperature range

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	1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x Type-C (Debug/Recovery) 2x Digital Input, 3x Digital Output 6X CSI 2-LANE
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	18-30 VDC
Extension Sockets	1x M.2 Key-E, 1x MicroSD, 1x 5V Fan 1x PCIE(x8), 1x PCIE(x1), 1x CAN 1x UART, 1x SPI, 1x I2C, 1x DP
Mass Storage	32 / 64 GB eMMC 5.1 Flash 1x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 103gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x / 5.x

DSBOARD-XV2 is the perfect edge computing device for industrial applications that require high processing power and reliability. Powered by the NVIDIA Jetson AGX Xavier module with a Volta GPU and an eight-core ARM64 CPU, it offers up to 32 TOPS of compute performance for deep learning and computer vision tasks. The device also boasts multiple connectivity options, including Gigabit Ethernet, Wi-Fi, Bluetooth, and USB 3.2, as well as M.2 expansion slots and a microSD card slot for storage expansion. Its wide operating temperature and input voltage range make it highly adaptable to various industrial environments, from robotics to transportation, security, and surveillance.
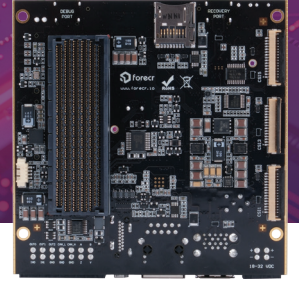
Compact yet rugged, the DSBOARD-XV2 is built to withstand even the toughest industrial conditions, making it an ideal choice for applications that require both high-performance computing and reliable connectivity. So whether you're working in industrial automation, healthcare, or any other industrial field, the DSBOARD-XV2 is the edge computing device you need to take your applications to the next level.
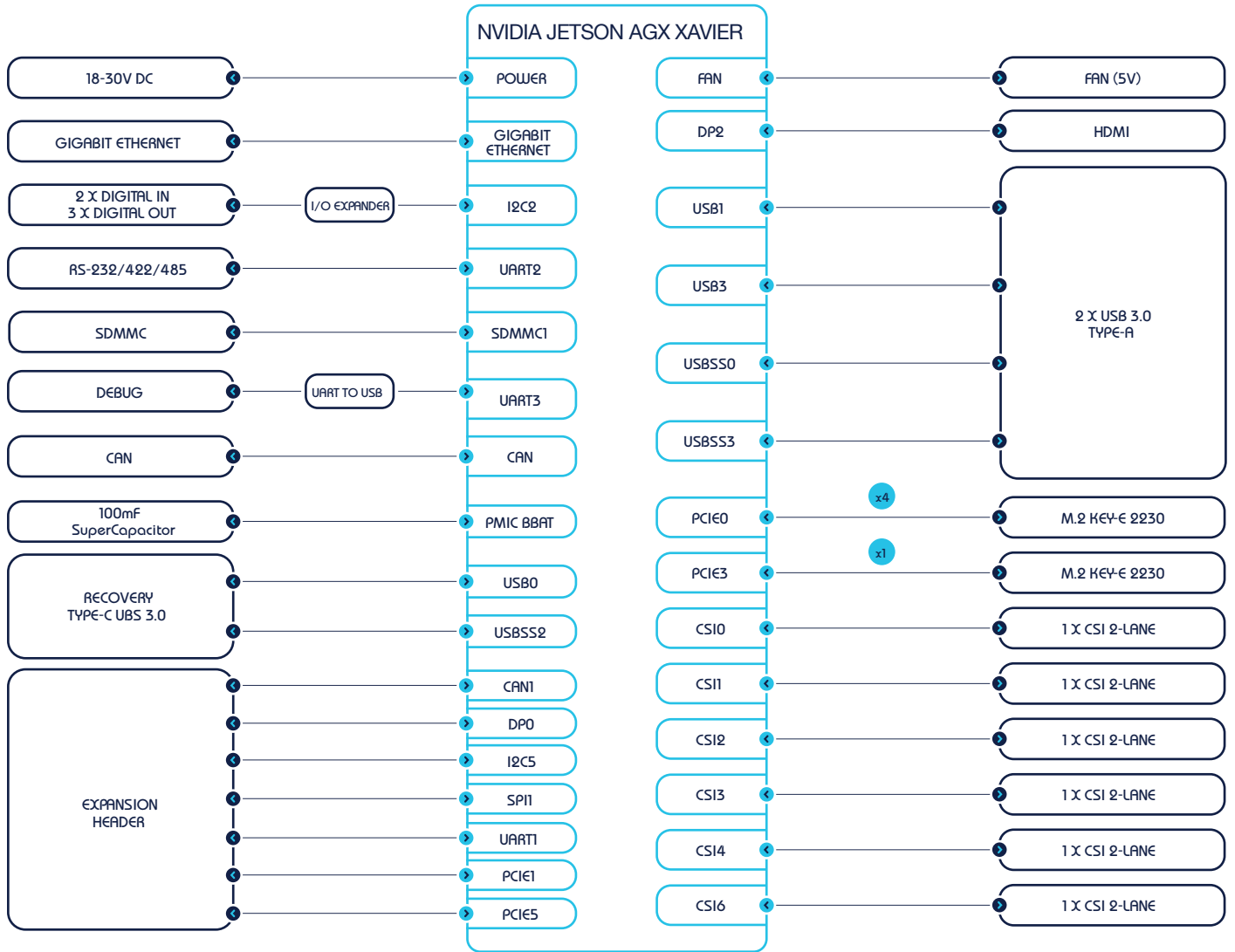
Transportation   Robotics   Agriculture

Manufacturing   Security and Surveillance   Smart City

RoHS COMPLIANT

NVIDIA Elite Partner

DSBOARD- XV2
INDUSTRIAL GRADE AGX XAVIER CARRIER BOARD

BLOCK DIAGRAM

NVIDIA JETSON AGX XAVIER

Left Input	Via	NVIDIA Port		Right Port	Output
18-30V DC		POWER	FAN		FAN (5V)
GIGABIT ETHERNET		GIGABIT ETHERNET	DP2		HDMI
2 X DIGITAL IN 3 X DIGITAL OUT	I/O EXPANDER	I2C2	USB1		
RS-232/422/485		UART2	USB3		2 X USB 3.0 TYPE-A
SDMMC		SDMMC1	USBSS0		
DEBUG	UART TO USB	UART3	USBSS3		
CAN		CAN	PCIE0	x4	M.2 KEY-E 2230
100mF SuperCapacitor		PMIC BBAT	PCIE3	x1	M.2 KEY-E 2230
RECOVERY TYPE-C UBS 3.0		USB0	CSI0		1 X CSI 2-LANE
		USBSS2	CSI1		1 X CSI 2-LANE
EXPANSION HEADER		CAN1	CSI2		1 X CSI 2-LANE
		DP0	CSI3		1 X CSI 2-LANE
		I2C5	CSI4		1 X CSI 2-LANE
		SPI1	CSI6		1 X CSI 2-LANE
		UART1			
		PCIE1			
		PCIE5			

FOR ORDERING

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