DSBOX-XV2

AGX XAVIER INDUSTRIAL BOX PC

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
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
Wireless Communication	WiFi/Bluetooth Connectivity by extension sockets
Power Supply	18-30 VDC
Extension Sockets	1x M.2 Key-E, 1x MicroSD
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	165 mm x 110 mm x 95 mm, 1460 gr
Operating Systems	Ubuntu Linux 18.04 / 20.04
JetPack Support	JetPack 4.x / 5.x

DSBOX-XV2 is a powerful edge computing device designed for industrial applications that require high processing power and reliability. It is powered by the NVIDIA Jetson AGX Xavier module, which features an NVIDIA Volta GPU with 512 CUDA cores and an eight-core ARM64 CPU. This provides DSBOX-XV2 the processing power required for complex industrial applications such as machine learning, computer vision, and AI.

The DSBOX-XV2 features a rugged and compact design optimized for harsh industrial environments. It is built with an aluminum chassis that provides excellent heat dissipation and protection against dust, shock, and vibration. It also has a wide operating temperature range (-25°C to 60°C) and a wide input voltage range (18V to 32V) to ensure reliable operation in various industrial environments. DSBOX-XV2 is a powerful and reliable edge computing device that is well-suited for industrial applications that require high processing power and ruggedness. Its combination of powerful hardware and software development tools makes it a versatile solution for a wide range of industrial applications.

Transportation

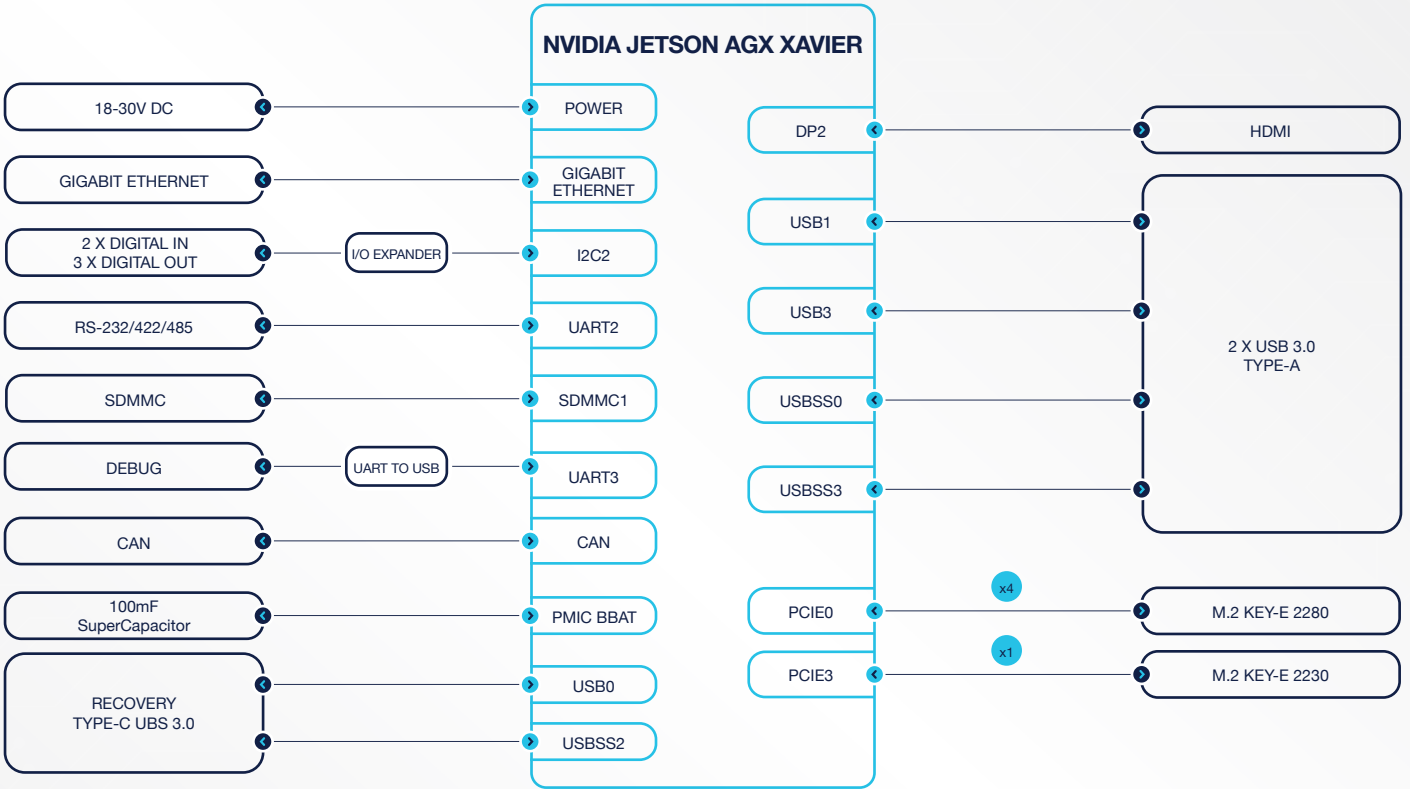Robotics

Agriculture

Manufacuring

Security and Surveillance

Smart City

RoHS COMPLIANT

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DSBOX-XV2
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BLOCK DIAGRAM

NVIDIA JETSON AGX XAVIER

Left I/O		Jetson port		Right port	External
18-30V DC		POWER	DP2		HDMI
GIGABIT ETHERNET		GIGABIT ETHERNET	USB1		
2 X DIGITAL IN 3 X DIGITAL OUT	I/O EXPANDER	I2C2	USB3		2 X USB 3.0 TYPE-A
RS-232/422/485		UART2	USBSS0		
SDMMC		SDMMC1	USBSS3		
DEBUG	UART TO USB	UART3			
CAN		CAN	PCIE0	x4	M.2 KEY-E 2280
100mF SuperCapacitor		PMIC BBAT	PCIE3	x1	M.2 KEY-E 2230
RECOVERY TYPE-C UBS 3.0		USB0			
		USBSS2			

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