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DSBOX-AGXMAX
AGX ORIN INDUSTRIAL BOX PC with 10G ETHERNET

HIGHLIGHTS

› Maximizes productivity and connectivity

› Powered by high-performance AGX Orin SoM

› Offers top-of-the-line 10G connectivity

› Dual Gigabit Ethernet, USB 3.2, HDMI, CAN

› Reliable performance for industrial apps

› Exceptional 275 TOPS of AI performance

› Unparalleled convenience and flexibility

› Robust construction, long-lasting reliability

› Extended temperature range

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 2.0(max resolution 3840x2160)
Interfaces	2x Gigabit Ethernet 1x 10G (SFP+Based) 2x USB 3.1 Type-A 1x CAN Bus 1x RS232/422/485 (software configurable) 2x USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
Power Supply	12-30 VDC
Extension Sockets	1x M.2 Key-B, 1x M.2 Key-E, 1x SIM
Mass Storage	64 GB eMMC 5.1 Flash 2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	225 mm x 135 mm x 83 mm, 3000gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

Introducing the DSBOX-AGXMAX is an industrial fanless box PC engineered to merge the potent capabilities of the AGX Orin SoM which can deliver up to 275 TOPS of AI performance, this board offers top of 10G connectivity, as well as Dual Gigabit Ethernet, USB 3.2, HDMI, CAN, Serial Ports, and GMSL2 Camera support.

The AGX Orin SoM processor delivers exceptional performance for industrial applications that require high-speed data transfer, real-time communication, and reliable performance. Whether you're working on machine vision, robotics, automation, or any other industrial project, the DSBOX-AGXMAX will deliver the power and versatility you need to get the job done.

With its compact form factor and flexible connectivity options, seamless integration into existing systems is effortless. Enjoy dependable performance and consistent results, thanks to its rugged design, cutting-edge performance, and versatile connectivity features. For any industrial application, the DSBOXAGXMAX stands as the ultimate solution.

Transportation
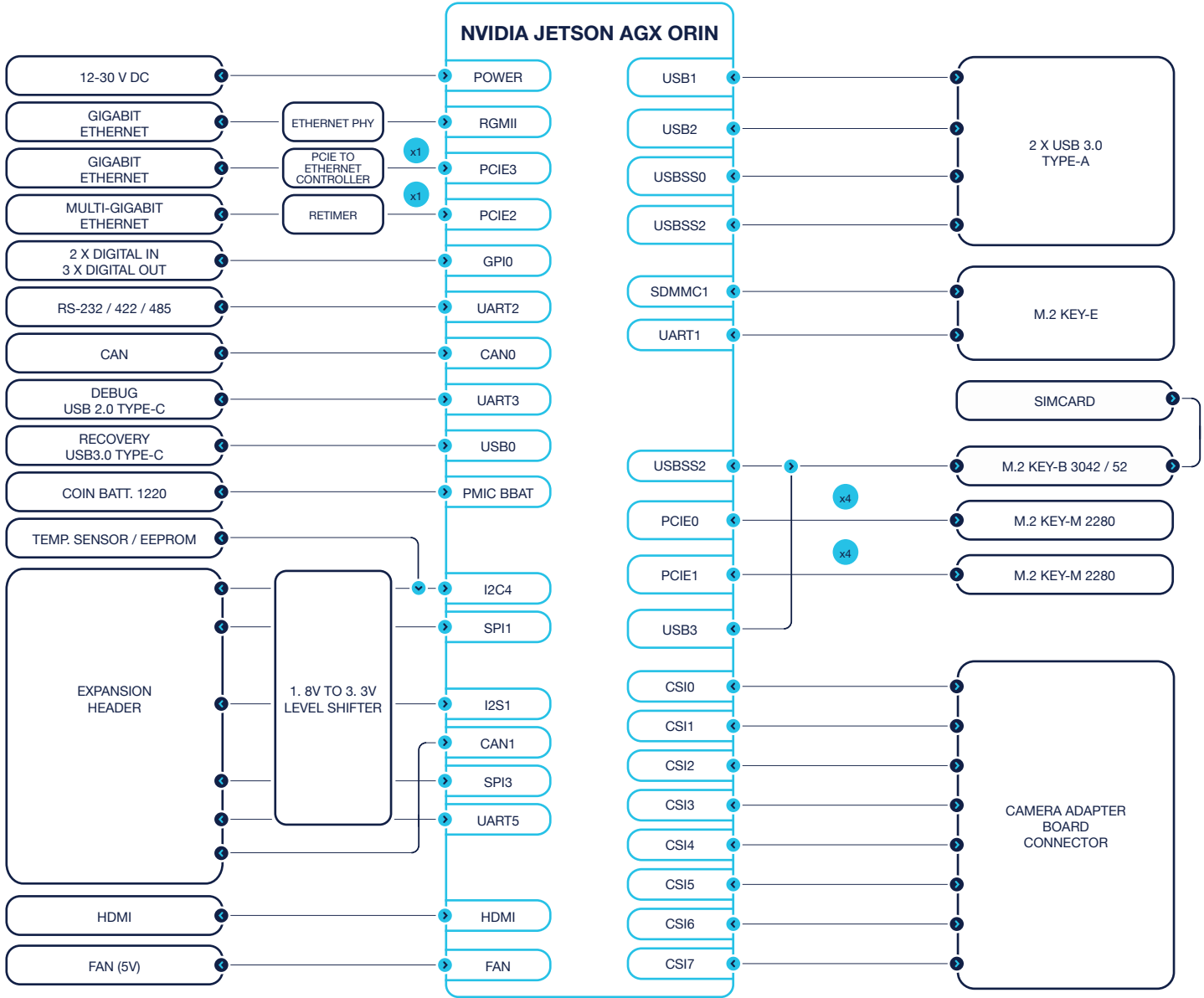
Robotics

Smart Retail

Energy

Agriculture

Autonomous Systems

RoHS COMPLIANT

NVIDIA | Elite Partner

DSBOX-AGXMAX

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BLOCK DIAGRAM

NVIDIA JETSON AGX ORIN

Left Peripheral	Interface			Right Interface	Right Peripheral
12-30 V DC	POWER			USB1	2 X USB 3.0 TYPE-A
GIGABIT ETHERNET	ETHERNET PHY → RGMII			USB2	
GIGABIT ETHERNET	PCIE TO ETHERNET CONTROLLER (x1) → PCIE3			USBSS0	
MULTI-GIGABIT ETHERNET	RETIMER (x1) → PCIE2			USBSS2	
2 X DIGITAL IN 3 X DIGITAL OUT	GPI0			SDMMC1	M.2 KEY-E
RS-232 / 422 / 485	UART2			UART1	
CAN	CAN0				SIMCARD
DEBUG USB 2.0 TYPE-C	UART3				
RECOVERY USB3.0 TYPE-C	USB0			USBSS2	M.2 KEY-B 3042 / 52
COIN BATT. 1220	PMIC BBAT			PCIE0 (x4)	M.2 KEY-M 2280
TEMP. SENSOR / EEPROM				PCIE1 (x4)	M.2 KEY-M 2280
EXPANSION HEADER / 1.8V TO 3.3V LEVEL SHIFTER	I2C4			USB3	
	SPI1			CSI0	CAMERA ADAPTER BOARD CONNECTOR
	I2S1			CSI1	
	CAN1			CSI2	
	SPI3			CSI3	
	UART5			CSI4	
HDMI	HDMI			CSI5	
FAN (5V)	FAN			CSI6	
				CSI7	

FOR ORDERING

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