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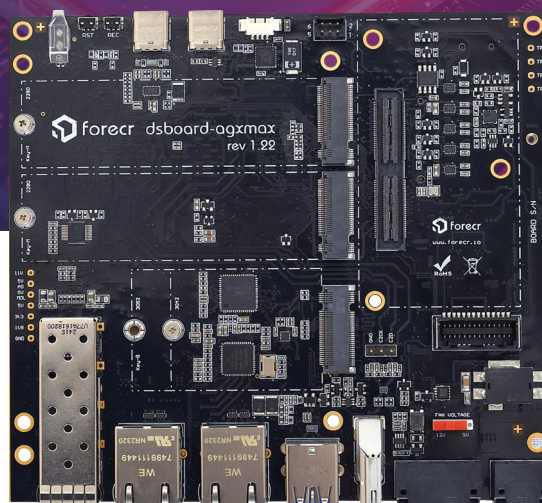
DSBOARD-AGXMAX
AGX ORIN CARRIER BOARD with 10G ETHERNET

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, 1x11V/5V Fan 1x I2C, 2x UART, 1x I2S, 2x SPI, 1x CAN 1x Camera Connector (6 CSI camera support)
Mass Storage	64 GB eMMC 5.1 Flash 2x M.2 Key-M SSD Slot
Ambient Conditions	-25°C ... +85°C
Form Factor / Dimensions	140 mm x 125 mm, 132gr
Operating Systems	Ubuntu Linux 20.04 / 22.04
JetPack Support	JetPack 5.x / 6.x

Introducing the DSBOARD-AGXMAX, the industrial carrier board that is built to maximize your productivity and connectivity. Powered by the high-performance AGX Orin SoM, which can deliver up to 275 TOPS of AI performance, this board offers top-of-the-line 10G connectivity, as well as Dual Gigabit Ethernet, USB 3.2, HDMI, CAN, Serial Ports, and MIPI CSI-2 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 DSBOARD-AGXMAX will deliver the power and versatility you need to get the job done.

With its easy-to-use design and extensive connectivity options, the DSBOARD-AGXMAX offers an unparalleled level of convenience and flexibility. And with its robust construction and long-lasting reliability, you can be confident that this carrier board will continue to meet your needs for years to come.

Transportation   Robotics   Smart Retail
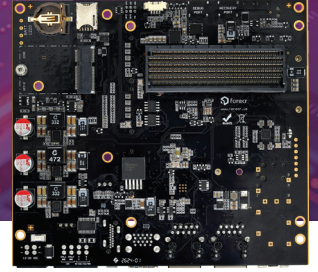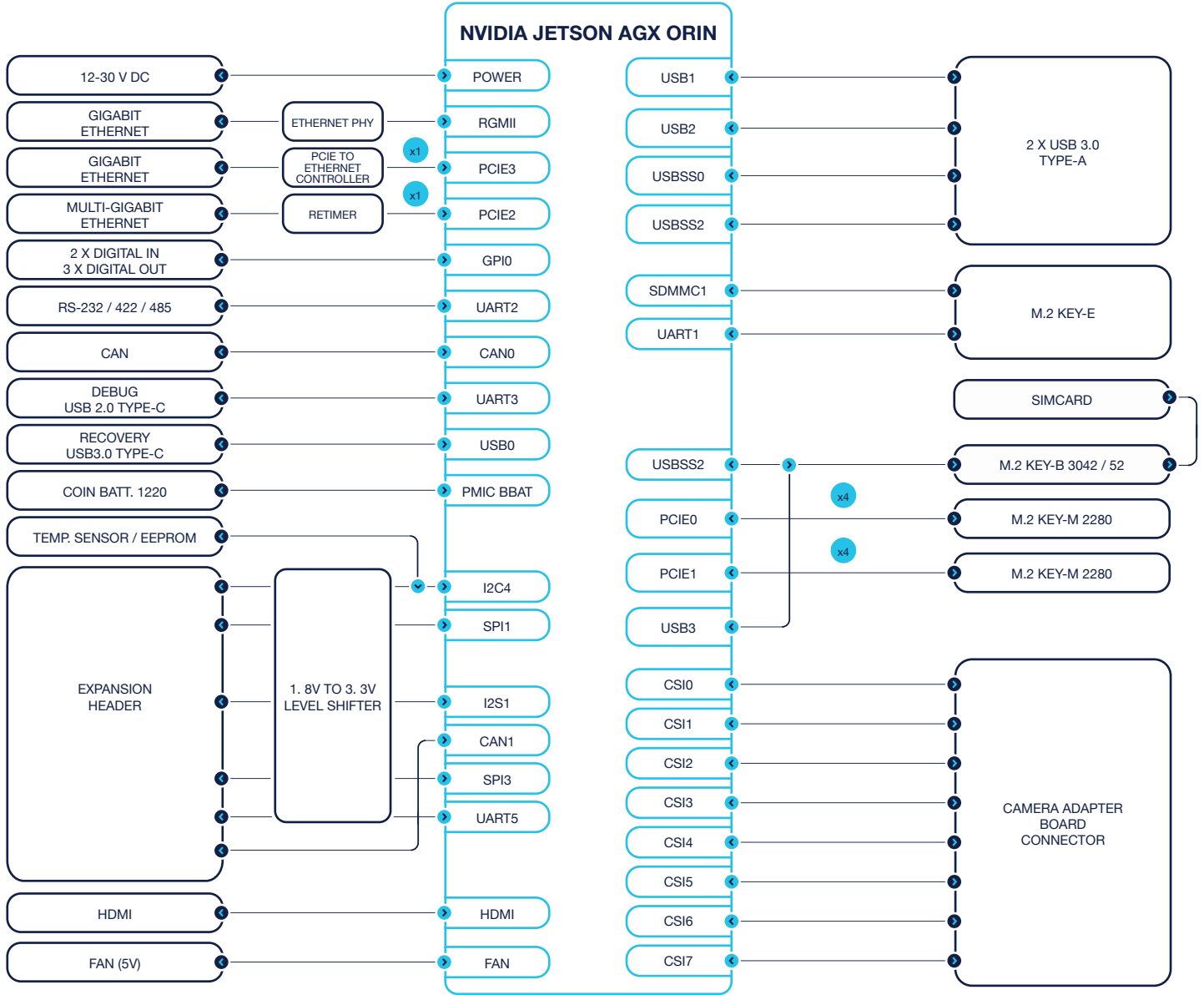
Energy   Agriculture   Autonomous Systems

RoHS COMPLIANT

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DSBOARD-AGXMAX

AGX ORIN CARRIER BOARD with 10G ETHERNET

BLOCK DIAGRAM

NVIDIA JETSON AGX ORIN

Left side connections:

External	Intermediate	Jetson Port
12-30 V DC		POWER
GIGABIT ETHERNET	ETHERNET PHY	RGMII
GIGABIT ETHERNET	PCIE TO ETHERNET CONTROLLER (x1)	PCIE3
MULTI-GIGABIT ETHERNET	RETIMER (x1)	PCIE2
2 X DIGITAL IN 3 X DIGITAL OUT		GPIO
RS-232 / 422 / 485		UART2
CAN		CAN0
DEBUG USB 2.0 TYPE-C		UART3
RECOVERY USB3.0 TYPE-C		USB0
COIN BATT. 1220		PMIC BBAT
TEMP. SENSOR / EEPROM		I2C4
EXPANSION HEADER	1. 8V TO 3. 3V LEVEL SHIFTER	SPI1 / I2S1 / CAN1 / SPI3 / UART5
HDMI		HDMI
FAN (5V)		FAN

Right side connections:

Jetson Port		External
USB1		2 X USB 3.0 TYPE-A
USB2		
USBSS0		
USBSS2		
SDMMC1		M.2 KEY-E
UART1		
		SIMCARD
USBSS2		M.2 KEY-B 3042 / 52
PCIE0	x4	M.2 KEY-M 2280
PCIE1	x4	M.2 KEY-M 2280
USB3		
CSI0		CAMERA ADAPTER BOARD CONNECTOR
CSI1		
CSI2		
CSI3		
CSI4		
CSI5		
CSI6		
CSI7		

FOR ORDERING

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