



DSBOARD-AGX

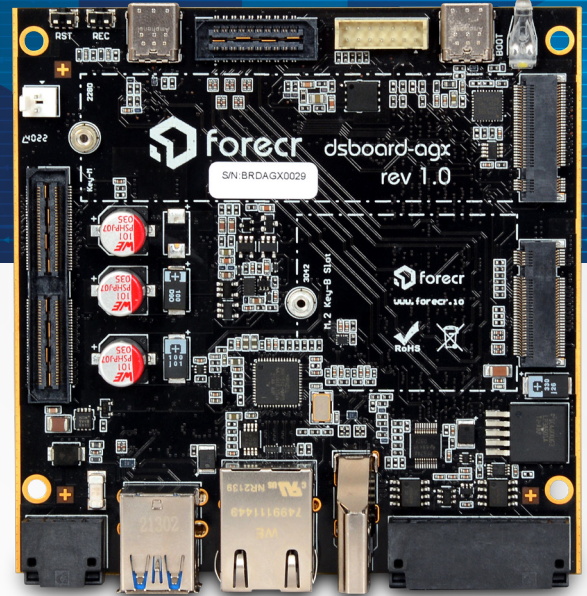
AGX ORIN CARRIER BOARD

HIGHLIGHTS

- › Powerful and reliable edge computing for industrial apps
- › NVIDIA Jetson AGX Orin with up to 275 TOPS of AI performance
- › CAN, RS-232 and Gigabit Ethernet interfaces
- › HDMI 2.0b with up to 8Kp60 resolution
- › Wide range of connectivity options
- › Multiple expansion slots for additional peripherals
- › Runs on NVIDIA JetPack SDK for building AI apps
- › Designed for harsh industrial environments
- › Ideal for robotics, automation, and surveillance

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB
Memory	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5x
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 USB-C (Debug/Recovery) 2x Digital Input 3x Digital Output
Wireless Communication	LTE/5G Connectivity by extension sockets
Power Supply	12-32 VDC
Extension Sockets	1x M.2 Key-B, 1x SIM, 1x MicroSD, 1x 5V Fan 1x SPI, 1x UART, 1x I2C, 1x PCIE (x4), 1x I2S, 1 x XFI for 10G 1x Camera Connector (6 CSI camera support)
Mass Storage	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 20.04
JetPack Support	JetPack 5.x



DSBOARD-AGX is a powerful and reliable edge computing device designed for industrial applications that require high processing power and ruggedness. It is based on the NVIDIA Jetson AGX Orin system-on-module (SOM), which features an NVIDIA Ampere GPU with 1024 CUDA cores and up to 275 TOPS (trillion operations per second) of AI performance. The AGX Orin SOM also includes a 12-core ARMv8.2 CPU and a dedicated deep learning accelerator for efficient inferencing.

The DSBOARD-AGX features a wide range of connectivity options, including Gigabit Ethernet, USB 3.0, HDMI, and RS-232, as well as multiple expansion slots for adding additional peripherals such as MIPI CSI-2 cameras.

The DSBOARD-AGX runs on the NVIDIA JetPack SDK, providing a complete software development environment for building and deploying AI applications in industrial environments. With its powerful AGX Orin SOM, the DSBOARD-AGX is capable of running complex AI algorithms and processing large amounts of data in real-time, making it an ideal choice for industrial applications such as robotics, automation, and surveillance.



Transportation



Security and Surveillance



Healthcare



Robotics

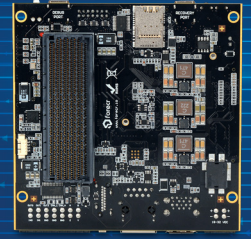


Industrial Automation

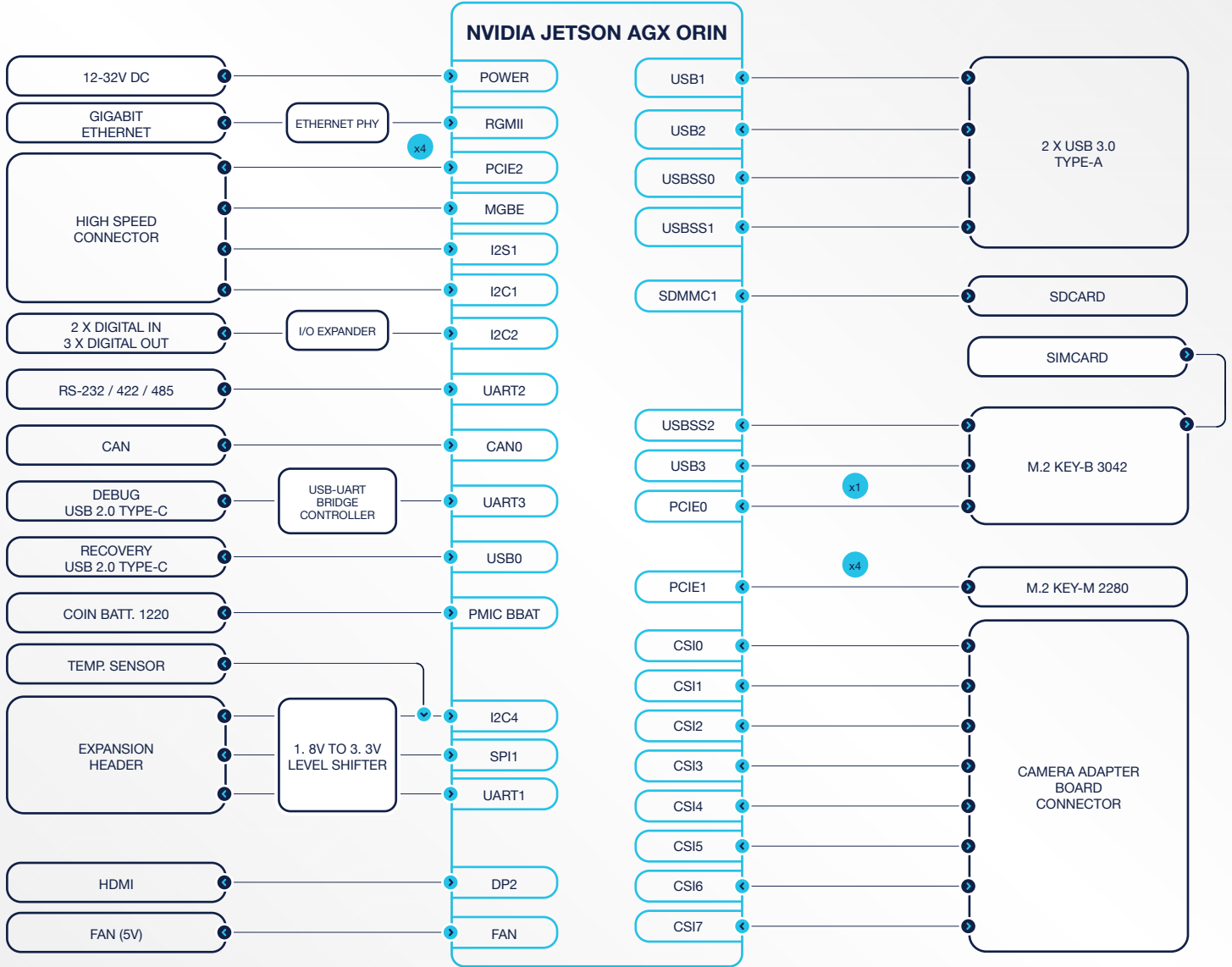


Agriculture





BLOCK DIAGRAM



ORDERING INFORMATION

DSBOARD-AGX-AA	DSBOARD-AGX carrier board without SOM
DSBOARD-AGX-AB	DSBOARD-AGX carrier board with 32GB AGX Orin SOM
DSBOARD-AGX-AC	DSBOARD-AGX carrier board with 64GB AGX Orin SOM

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