



# DSBOARD-AGXS

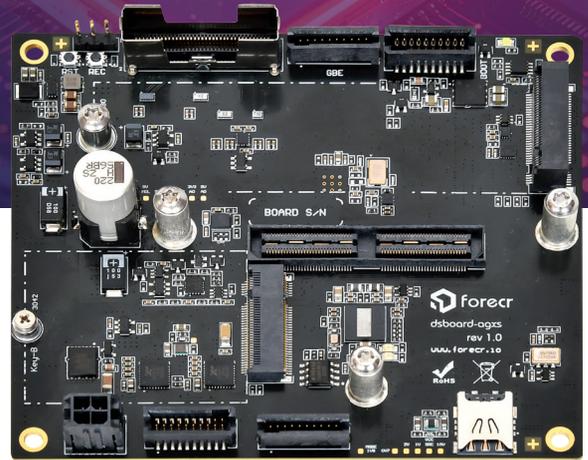
## AGX ORIN COMPACT CARRIER BOARD

### HIGHLIGHTS

- › AGX Orin SOM footprint (87x100 mm) for seamless system integration
- › High-speed connectivity with 10G Ethernet + 1G Ethernet
- › Versatile expansion via M.2 Key-M & M.2 Key-B
- › Advanced vision support through camera expansion slot
- › Rich industrial IO including RS-232/422/485, dual CAN, digital I/Os, SPI, I2C, UART
- › Built-in sensing & control with a 6-axis IMU, temperature sensor, nano-SIM support
- › Designed for harsh environments with locking connectors and vibration-resistant architecture

### TECHNICAL SPECIFICATIONS

<b>Supported Modules</b>	NVIDIA Jetson AGX Orin 32GB NVIDIA Jetson AGX Orin 64GB NVIDIA Jetson AGX Orin Industrial
<b>Memory</b>	32 GB 256-bit LPDDR5x 64 GB 256-bit LPDDR5
<b>Graphics Interfaces</b>	1x DP 1.4
<b>Interfaces</b>	1x 10G Ethernet (Copper) 1x 1G Ethernet (Copper) 3x USB3.1 2xRS-232/422/485 2xCAN Bus 2xDigital Input 2xDigital Output 1x Serial Communications Header (1xSPI, 1xI2C, 2xUART, 2xPWM) 1x nanoSIM Connector 11V(default)/5V selectable FAN Header 6-axis IMU Temperature sensor
<b>Wireless Communication</b>	WiFi/Bluetooth/LTE/5G Connectivity by extension sockets
<b>Power Supply</b>	12-36V DC
<b>Extension Sockets</b>	1x M.2 Key-B 3042 (PCIe Gen4 x1, USB3.1, USB2.0) 1x Camera Expansion Slot (for use with MIPI, GMSL add-on boards)
<b>Mass Storage</b>	1x M.2 Key-M 2280 (PCIe Gen4 x4)
<b>Ambient Conditions</b>	-40°C ... +85°C (Carrier Board)
<b>Form Factor / Dimensions</b>	87x100mm (same as AGX Orin SOM)
<b>Operating Systems</b>	Ubuntu Linux 20.04 / 22.04
<b>JetPack Support</b>	JetPack 5.x / 6.x



The DSBOARD-AGXS is engineered to bring powerful edge AI performance to the most space-constrained industrial environments. Designed with the same compact footprint as the Jetson AGX Orin SOM, it delivers seamless integration while supporting 32GB, 64GB, and Industrial AGX Orin modules. With high-speed 10G and 1G Ethernet, 3x USB 3.1, and versatile M.2 expansion for high-bandwidth storage and wireless connectivity, the DSBOARD-AGXS enables next-generation AI workloads with exceptional efficiency. Its dedicated camera expansion slot supports MIPI and GMSL add-on boards, making it ideal for vision-centric applications. Rich industrial I/O—RS-232/422/485, CAN, digital I/Os, SPI, I2C, UART, PWM—combined with an onboard 6-axis IMU, temperature sensor, and nanoSIM slot, ensures robust performance across all Edge AI deployments. Compact, powerful, and built for the edge, the DSBOARD-AGXS designed for harsh environments with locking connectors and vibration-resistant architecture.

Autonomous Vehicles

Smart City

Healthcare

Industrial Automation

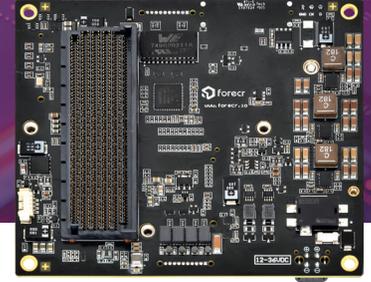
Robotics

Transportation

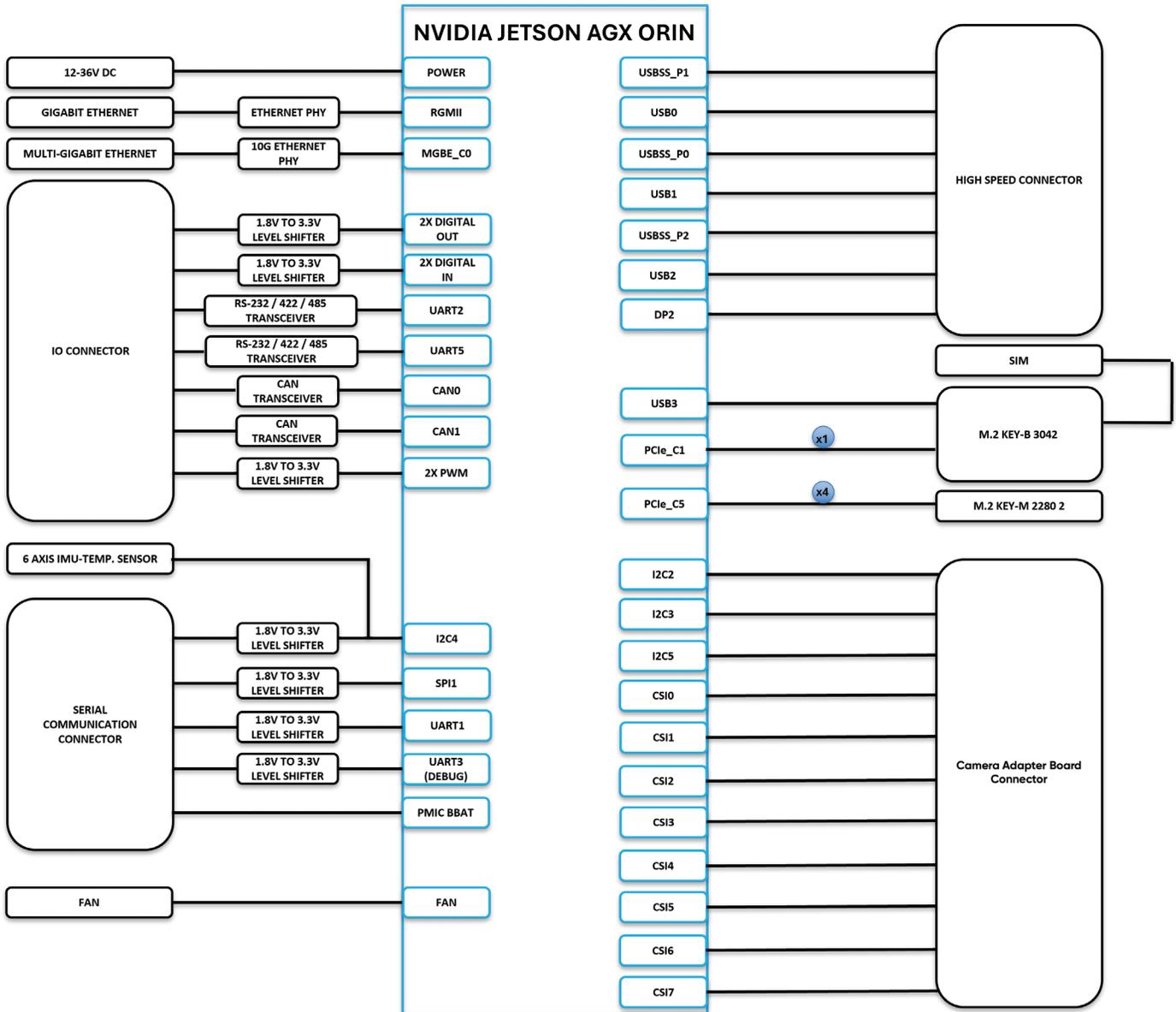


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## AGX ORIN COMPACT CARRIER BOARD



### BLOCK DIAGRAM



### FOR ORDERING

#### Forecr OÜ (Reg No: 16578675)

VAT No: EE102592089  
Sakala tn 7-2, Tallinn, 10141, Estonia

#### Forecr OÜ (Technopol Office)

Akadeemia tee 21/1 (II-floor), Room 219, 12618, Tallinn, Estonia

#### FORECR ELEKTRONIK LTD. STI. (R&D)

Gazi Üniversitesi Gölbaşı Yerleşkesi Teknokent Binası B Blok  
No:10/50-B/23 06830 Gölbaşı / ANKARA / TURKEY

