



DSBOARD-ORNX

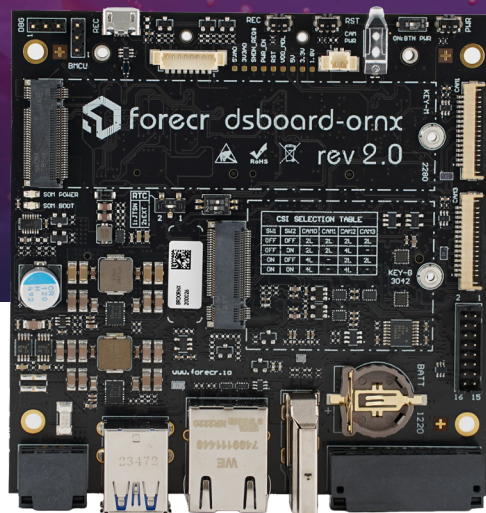
JETSON ORIN NX & ORIN NANO CARRIER BOARD

HIGHLIGHTS

- NVIDIA Jetson Orin Nano & NX Super Mode Support
- AI ready with up to 157 TOPS performance
- 4K Video Display (HDMI 2.0)
- Industrial IO options (RS232, RS422, CAN Bus, Digital I/Os)
- Rich extension options (M.2 Key-E, M.2 Key-B, M.2 Key-M)
- High Speed Interfaces (Gigabit Ethernet, USB 3.2)
- Robust power design
- Wide voltage input range
- Extended temperature range

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson Orin Nano 4GB / 8GB NVIDIA Jetson Orin NX 8GB / 16GB
Memory	4 GB 64-bit LPDDR5 / 8 GB 128 bit LPDDR5 8 GB 256-bit LPDDR5 / 16 GB 128 bit LPDDR5
Graphics Interfaces	1x HDMI 2.0
Interfaces	1x Gigabit Ethernet 2x USB 3.2 Type-A 1x CAN-FD 1x RS232 1x RS422 1x microUSB 2.0 (Recovery) 2x Digital Input (12-24V) 2x Digital Output (up to 24V) 2x CSI 4-Lane or 4x CSI 2-Lane
Other Features	Temperature Sensor
Wireless Communication	WIFI/LTE/5G/Bluetooth Connectivity by extension sockets
Power Supply	9-32 VDC
Extension Sockets	M.2 Key-B 3042 (USB3.0, USB2.0) M.2 Key-E 2230 (PCIe x1, USB2.0) 1x nanoSIM FAN Header (5V, PWM, TACH) Serial Communication Header (1x SPI, 1x I2S, 1x I2C)
Mass Storage	1x M.2 Key-M 2280 (PCIe x4 Gen4) 1x M.2 Key-M 2230 (PCIe x1 Gen4)
Operating Temperature	-40°C ... +85°C
Form Factor / Dimensions	100 mm x 100 mm, 82.8 gr
Operating Systems	Ubuntu Linux 20.04 / 22.04 / 24.04
JetPack Support	JetPack 5.x / 6.x / 7.2+



DSBOARD-ORNX is an industrial carrier board designed for harsh environments and applications that demand high processing power and reliability. It is based on the NVIDIA® Jetson Orin™ NX / Orin™ Nano SoM, which features advanced NVIDIA Ampere GPU and ARM64 CPU architecture, it delivers exceptional performance. Its compact form factor provides a versatile and flexible solution for a wide array of industrial applications, including autonomous systems, robotics, and intelligent video analytics.

DSBOARD-ORNX comes with various connectivity options, including Gigabit Ethernet, USB 3.2, HDMI, and CAN Bus, enabling seamless integration with a wide range of devices and systems. The NVIDIA Orin™ NX / Orin™ Nano SOM provides the processing power and capabilities needed to support intensive data processing and analysis.

In addition to its compact size, DSBOARD-ORNX also features multiple expansion slots for adding peripherals and customizing the system to meet specific requirements. Its wide operating temperature range ensures reliable operation in challenging environments.

Overall, DSBOARD-ORNX a highly dependable solution for industrial applications that demand high processing power and a reliable platform. Its advanced features and compact design make it an ideal choice for applications where space is limited, and flexibility is key.



Autonomous Vehicles



Security and Surveillance



Healthcare



Industrial Automation



Robotics



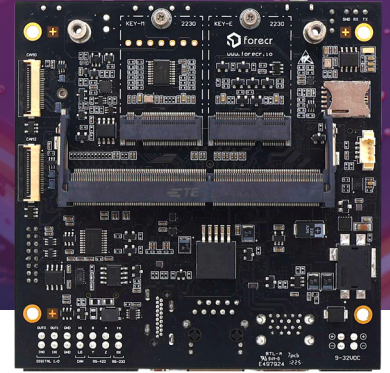
Agriculture



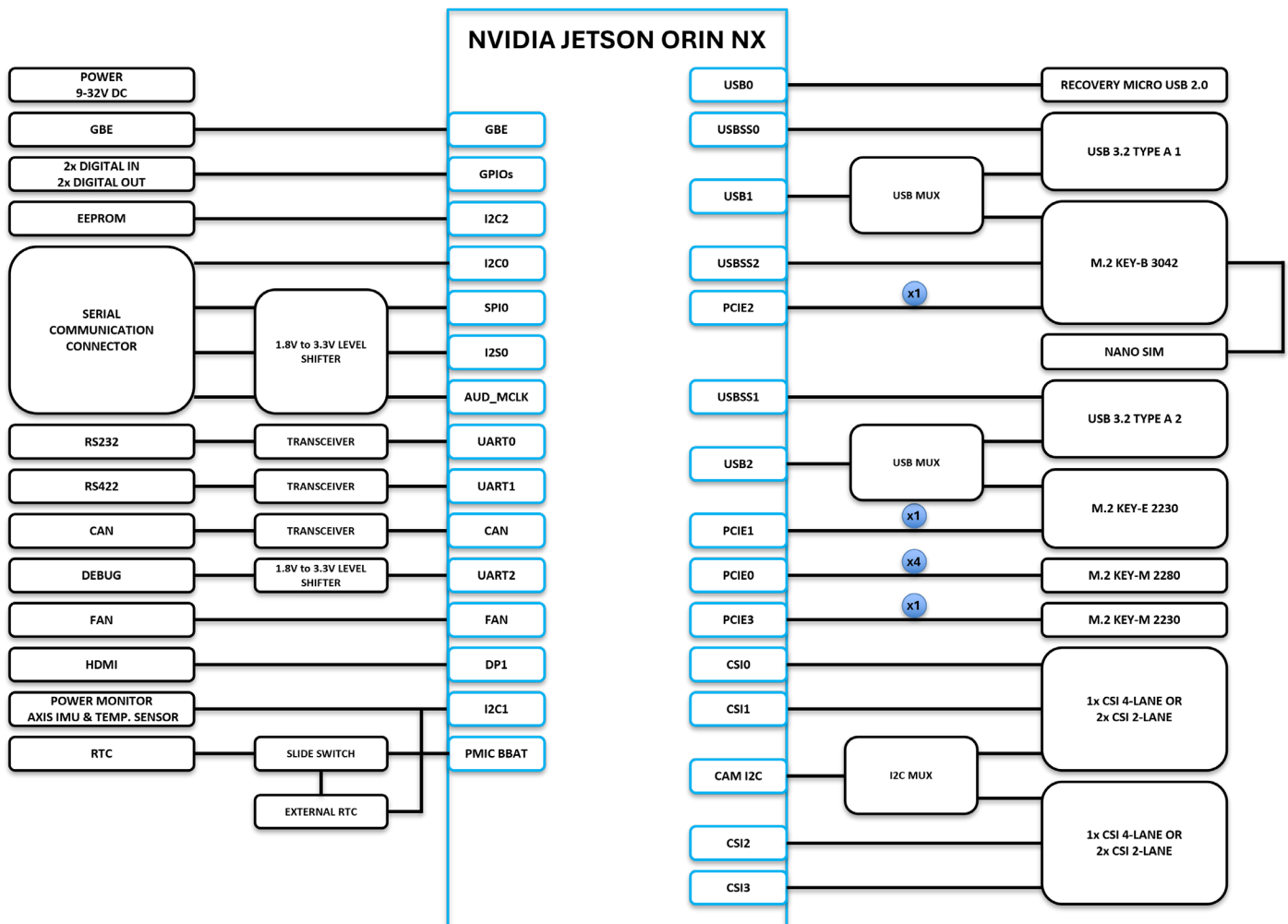
Elite Partner

DSBOARD-ORNX

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BLOCK DIAGRAM



FOR ORDERING

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