



DSBOARD-ORNX

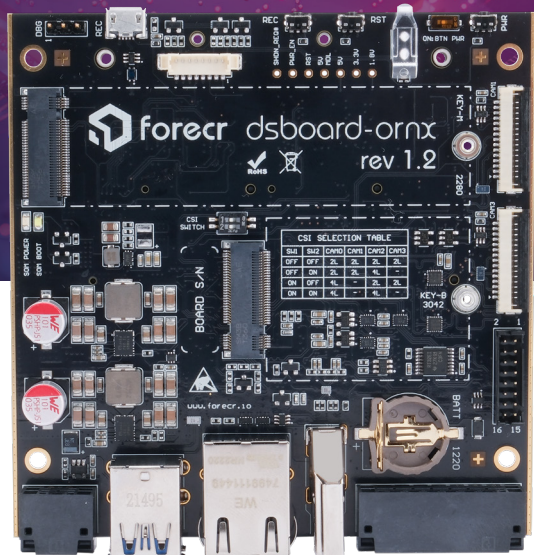
JETSON ORIN NX & ORIN NANO CARRIER BOARD

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 3.1)
- › 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 (max resolution 3840x2160) |
| Interfaces | 1x Gigabit Ethernet 2x USB 3.1 Type-A 1x CAN Bus 1x RS232 & 1x RS422 1x microUSB 2.0 (Recovery) 2x Digital Input 2x Digital Output 2X CSI 4-LANE or 4x CSI 2-LANE |
| Wireless Communication | WIFI/LTE/5G/Bluetooth Connectivity by extension sockets |
| Power Supply | 9-28 VDC |
| Extension Sockets | 1x M.2 Key-E, 1x M.2 Key-B, 1x SIM, 1x 5V FAN, 1x SPI, 1x I2S, 1x I2C |
| Mass Storage | 2x M.2 Key-M SSD Slot |
| Ambient Conditions | -25°C ... +85°C |
| Form Factor / Dimensions | 100 mm x 100 mm, 85gr |
| Operating Systems | Ubuntu Linux 20.04 / 22.04 |
| JetPack Support | JetPack 5.x / 6.x |



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 Orin NX system-on-module (SOM), which features multiple NVIDIA Ampere GPU cores and ARM64 CPU cores. The compact design of the carrier board makes it a versatile and flexible solution for a wide range of industrial applications such as autonomous systems, robotics, and intelligent video analytics.

DSBOARD-ORNX comes with various connectivity options, including Gigabit Ethernet, USB 3.1, HDMI, and CAN, enabling seamless integration with a wide range of devices and systems. The NVIDIA Orin NX 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 is an effective 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



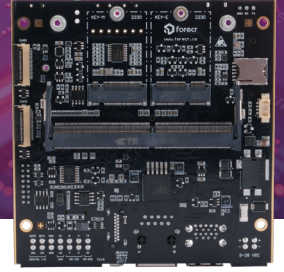
Agriculture



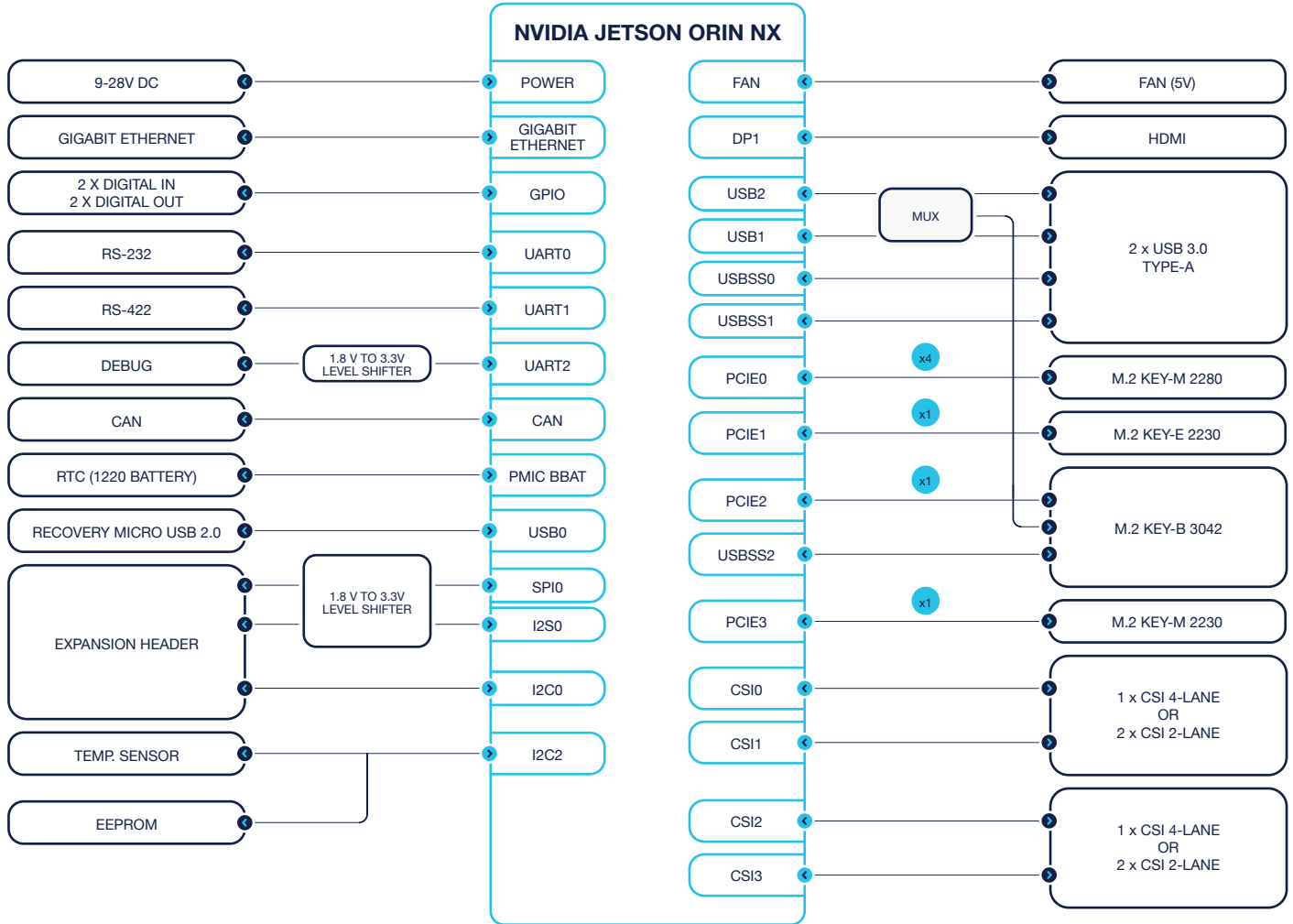
Elite
Partner

DSBOARD-ORNX

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BLOCK DIAGRAM



FOR ORDERING

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